



**Maritime Equipment
Easy Maintenance On Board**



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WHY PARTNER WITH GRACO?

FLEET OWNERS AND SHIP CHANDLERS

- The only 'pump' manufacturer to offer you such a wide range of marine equipment.
- With 3,300 distributors around the world, you have easy access to our products and spare parts.
- The wide-ranging ATEX and IECEx approved products provide the perfect solution for hazardous areas on board your petroleum tankers or bulk cargo carriers.
You benefit from reliable products supported by many years of experience.
- Sharing user experiences, training information and latest developments.

MARINE CATALOGUE

- Overview of our extensive range of marine products designed to work within the toughest marine conditions.
- Our products are listed with the Graco Partnumber and the IMPA Reference where applicable, and they are illustrated to ease the ordering process between the shipowner and shipboard personnel and the ship supplier.
- You can order the complete range from one contact and delivery happens worldwide. Contact details are listed at the end of the catalogue.





We have you covered with over
3,300 distributors
worldwide

COMMITMENT TO QUALITY SINCE 1926

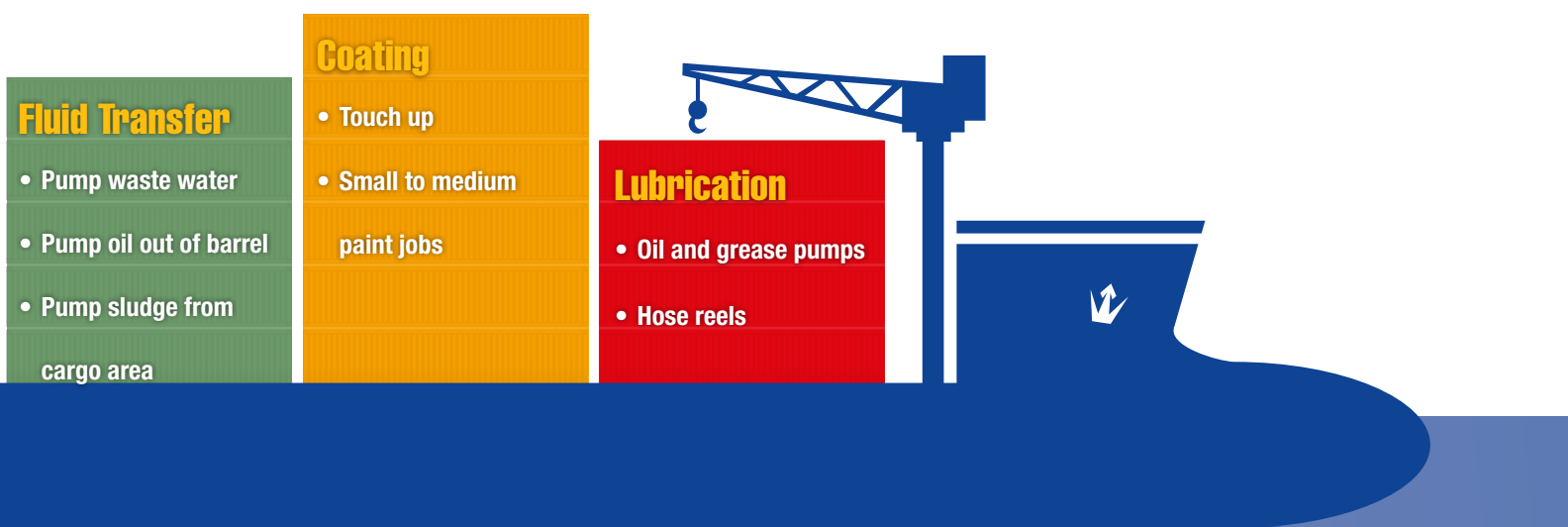
Graco strives for continuous improvement and excellence.

To guarantee superior quality and to meet the market's changing requirements, we prioritize the investment of human and financial resources in Research and Development.

Every day, over 440 engineers perform research, product and process development.

Innovative technologies and extensive field testing are a natural part of our process to develop new products.

Every aspect of our production is subject to constant testing and evaluation. It's the foundation to deliver products with long service life and low cost of ownership. The insurance to help you grow your business.



DECK CLEANING

HYDRA-CLEAN® AIR-OPERATED CART-MOUNT

The Hydra-Clean® Pressure Washer is designed for high pressure and high volume cleaning. Its high flow rate reduces the time taken to complete cleaning tasks saving on labour costs.

The unit itself can be operated on base oil, fresh and salt water, making it ideal for deck and tank cleaning.

The Hydra-Clean® can be used in hazardous areas as it's ATEX approved.

Advantages

- **Air-operated**
Low sound level – ideal for on board cleaning on cruise ships
High pressure and high flow cleaning
Up to 276 bar (4000 psi) and 34 lpm (9 gpm)
- **Easy to use**
Use with hot or cold water, detergents or strong chemical solutions up to 93°C (200°F)
- **Supports multiple guns**
Use 2 spray wands at the same time to support multiple operators
- **ATEX approved**
The air-driven motor enables use in explosion classified areas.
Ideal for cleaning on board of tankers

Accessories

- 247878 Std. Discharge hose (3/8" x 15 m):
10 bar with M & F QD's
- 247880 Gun SST quick disconnect connections
- 24W471 Hose Reel Kit:
344 bar (5000 psi) maximum pressure
- 15T272 Coupler, 3/8" QR , 3/8-18 NPT:
For adding a second hose with gun to the outlet of the pump



| IMPA REFERENCE | 59 07 39 | 59 07 34 |
|--------------------------|----------------------------------|----------------------------------|
| GRACO PART NUMBER | 247553 | 258664 |
| Pump Package | 30:1 Cart Mount | 40:1 Cart Mount |
| Max. Working Pressure | 211 bar (21.1 MPa / 3065 psi) | 276 bar (27.6 MPa / 4000 psi) |
| Max. Air Input Pressure | 7 bar (0.7 MPa / 100 psi) | |
| Fluid Flow at 60 cpm | 25.9 lpm (6.8 gpm) | 17.4 lpm (4.6 gpm) |
| Cycle | 430 cc (14.5 oz) | 290 cc (9.8 oz) |
| Air Inlet Size | 3/4" npt(f) | |
| Fluid Inlet Size | 1 in | |
| Fluid Outled Size | 3/8 in | |
| Manual | 312585 | |
| Pump Std Repair Kit | 17L796 | 24C162 |
| Optional PTFE Repair Kit | 222846 | |

CHEMICAL CARGO CLEANING

HYDRA-CLEAN® AIR-OPERATED 10:1 DRUM-MOUNT

It is the ideal solution for a majority of fluid handling tasks on board.

The pump is designed to be mounted on any open head universal drum and it can spray vertically up to 12 m (39.3 ft). It is ideal for applying chemicals and detergents onto surface, washing down, general transfer of fluids and chemical injection into pressurised systems.

Advantages

- **Start-up ready**
Delivered with lubricator, hoses, spray gun and nozzle
- **Ease of use**
Use with open-head universal drums – vertically spraying up to 12 m (39.3 ft)
- **Efficient cleaning**
Use with hot or cold water, detergents or strong chemical solutions up to 93°C (200°F)
- **Supports multiple guns**
Use 2 spray wands at the same time to support multiple operators
- **ATEX approved**
The air-driven motor enables use on all vessel types.



| IMPA REFERENCE | |
|--------------------------|---------------------------------|
| GRACO PART NUMBER | 6880119 |
| Pump Package | 10:1 Drum Mount |
| Max. Working Pressure | 125 bar (12.5 MPa/ 1800 psi) |
| Max. Air Input Pressure | 12.5 bar (1.2 MPa / 180 psi) |
| Fluid Flow at 60 cpm | 11.4 lpm (3 gpm) |
| Cycle | 189 cc (6.4 oz) |
| Air Inlet Size | 1/2" npt(f) |
| Fluid Inlet Size | 1/2 in |
| Fluid Outlet Size | 3/4 in |
| Manual | 308116 |
| Pump Std Repair Kit | 224401 |
| Optional PTFE Repair Kit | 224889 |

Accessories

- 247878 Std. Discharge hose (3/8" x 15 m):
10 bar with M & F QD's
- 247880 Gun SST quick disconnect connections
- 24W471 Hose Reel Kit:
344 bar (5000 psi) maximum pressure
- 15T272 Coupler, 3/8" QR, 3/8-18 NPT:
For adding a second hose with gun to the outlet of the pump

SANITISING, DISINFECTING AND DEODORISING JOBS

SANISPRAY HP™

When sanitising a small room or the entire deck, you want to have the right equipment to do the job. Otherwise, surfaces might not be efficiently disinfected or the equipment might be even unsafe to use. Graco's SaniSpray HP-range is specifically designed to disinfect any surface safely, fast and thoroughly.

The complete line of SaniSpray HP sprayers is built to deliver the highest level of productivity on every job. Whether you need to treat a small spot or an entire deck, there is a SaniSpray HP model with the performance you need to take on the task.



Advantages

- Consistent atomisation and coverage**
 Delivers the proper atomisation required to quickly and consistently coat surfaces to disinfect and sanitise efficiently
- Ready to spray**
 Comes with everything you need to start immediately. Just add disinfectant and get to work.
- High speed and productivity**
 Choose the SaniSpray HP model by its flow rate to match job requirements

| IMPA REFERENCE | | | | |
|------------------------|--|--|---|--|
| GRACO PART NUMBER | 25R943 (230V CEE) 25R949 (230V UK) | 25R945 (230V CEE) 25R950 (230V UK) | 25R946 (230V CEE) 25R948 (230V IT/DK/CH/UK) | 25R947 (230V CEE) 25R951 (110V UK) |
| Graco Model | SaniSpray HP 20* Corded Handheld Sprayer | SaniSpray HP 20 Cordless Handheld Sprayer | SaniSpray HP 65 Portable Hopper Sprayer | SaniSpray HP 130 2-Gun Cart Sprayer |
| Max. Flow Rate | 0.6 lpm (0.16 gpm) | 0.6 lpm (0.16 gpm) | 1.9 lpm (0.5 gpm) | 3.8 lpm (1 gpm) Ability to use 2 guns simultaneously |
| Max. Tip Size | .019" | .019" | .023" | .031" |
| Pressure | Adjustable 69 bar (6.9 MPa, 0-1000 psi) | | | |
| Particle** Micron Size | Adjustable Particle - Micron Size - Fine Mist to Coarse Spray | | | |
| Capacity | Fill & Spray 1.25 litres (0.33 gal) | Fill & Spray 1.25 litres (0.33 gal) | Pour & Go 5.7 litres (1.5 gal) | High Production Use Any Container |
| Power Sources | 230V CEE Corded 230V UK Corded | DEWALT 18V Cordless Lithium Ion Batteries | 230V CEE Corded 230V IT,DK, CH, UK Corded | 230V CEE Corded 110V UK Corded |
| Includes | <ul style="list-style-type: none"> • 313 Fine Spray Tip • 515 & 619 Coarse Spray Tip • 40 cm (15.7 in) Spray Extension • 5 FlexLiner Bags • Storage Plug • Storage Bag | <ul style="list-style-type: none"> • 313 Fine Spray Tip • 515 & 619 Coarse Spray Tip • 40 cm (15.7 in) Spray Extension • 2 DEWALT®*** 18V Max 2.0 ah Lithium-Ion Batteries • Charger • 5 FlexLiner Bags • Storage Plug • Storage Bag | <ul style="list-style-type: none"> • SaniSpray HP Gun • ¼" x 15m (50ft) BlueMax II Hose • 1/8" x (4.5 ft) BlueMax Whip Hose • 515 Fine Spray Tip • 617 & 619 Medium & Coarse High Production Spray Tips • 40 cm (15.7 in) Spray Extension | <ul style="list-style-type: none"> • (2) SaniSpray HP Guns • (2) ¼" x 15m (50 ft) BlueMax II Hose • (2) 1/8" x (4.5 ft) BlueMax Whip Hose • (2) 617 Fine Spray Tips • (2) 617 & (2) 619 Medium & Coarse High Production Spray Tips • (2) 40 cm (15.7 in) Spray Extension |
| Modular Repair | Yes | Yes | Yes | Yes |

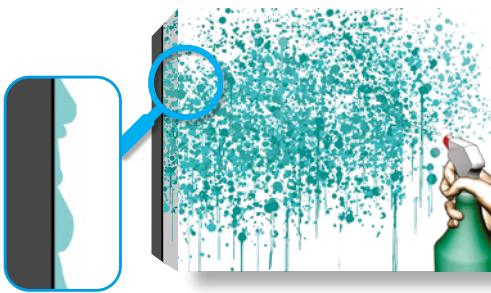
* SaniSpray HP 20 Corded Handheld Sprayer cannot spray alcohol based (flammable) products.

** Particle size will vary based on tip size, pressure and disinfectant product. Average particle size measured when spraying water ranges from 30 to 110 microns

*** DEWALT® and the DEWALT Logo are trademarks of DEWALT Industrial Tool Co. and are used under licence.

Graco's SaniSpray HP products have been designed to deliver consistent coverage, without heavy drips and runs, so that you can achieve specified disinfectant dwell times. Only Graco's SaniSpray HP sprayers are designed and built specifically to be compatible with sanitising and disinfecting chemicals while applying them with maximum efficiency.

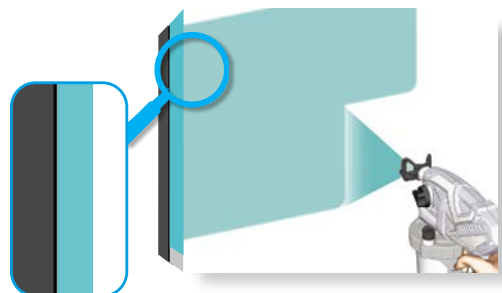
THE OLD WAY



Inconsistent coverage with drips and runs

VS

THE SANISPRAY HP WAY



Consistent coverage from edge to edge

Compatible Disinfectants

- Approved Alcohol-based (Flammable) Active Ingredients - Ethanol, Isopropanol (except for SaniSpray HP 10 and 20 Corded models)
- Approved Non-Alcohol Based Active Ingredients - Aldehydes, Phenols, Quaternary Ammonium Compounds, Sodium Hypochlorite (Bleach), Peroxyacetic Acid, Hydrogen Peroxide, Hypochlorous Acid
- Consult with your material manufacturer to confirm spray application and equipment compatibility

| | | RAC X LP TIPS: | | | | | | |
|---|-------|----------------|--------|---------------|--------|--------------|--------|--------|
| | | LESS | | MATERIAL FLOW | | MORE | | |
| | | FINE MIST | | ATOMISATION | | COARSE SPRAY | | |
| IN | | .013" | .015" | .017" | .019" | .021" | .023" | .025" |
| Narrow ↑ SPRAY PATTERN WIDTH ↓ Wide | 6-8 | LP 313 | LP 315 | | | | | |
| | 8-10 | | LP 415 | LP 417 | LP 419 | LP 421 | LP 423 | LP 425 |
| | 10-12 | | LP 515 | LP 517 | LP 519 | LP 521 | LP 523 | LP 525 |
| | 12-14 | | - | LP 617 | LP 619 | LP 621 | LP 623 | LP 725 |
| | 14-16 | | - | - | - | - | LP 723 | LP 725 |

SaniSpray 20 Optimal Range

SaniSpray 65 Optimal Range

SaniSpray 130 Optimal Range

SMALL SURFACE PREPARATION JOBS

GRINDLAZER™

Proper surface preparation is essential to ensure optimal adhesion of any coating to the surface by removing all surface contaminants – leaving the surface clean, dry, properly profiled and sound.

The GrindLazer HandHeld Series is a great choice for small onboard surface preparation jobs.

The rugged and compact design allows for easy touch-ups, edging and removal of renders and coatings from steel surfaces in hard-to-reach areas.



Advantages

- **Versatile**
Handles both horizontal and vertical surfaces
- **Long life**
Steel and high-impact plastic construction
- **Flexible**
Available in both drum and rotary styles

| IMPA REFERENCE | | |
|-------------------------------------|---|---|
| GRACO PART NUMBER | 25N391 | 25N392 |
| Graco Model | GrindLazer Standard DC21 E | GrindLazer Standard RC71 E |
| Cutter Type | Drum | Rotary |
| Max. Working Width | 5 cm (2 in) | 17.5 cm (7 in) |
| Cutter Drum Diameter | 10 cm (4 in) | 10 cm (4 in) |
| Engine/Motor – cm ³ (HP) | 230V Makita | 230V Makita |
| Max. Cut Rate | 10 m ² /hr (100 ft ² /hr) | 10 m ² /hr (100 ft ² /hr) |
| Vacuum Port | ✓ | ✓ |
| Manual | 3A5575 | 3A5575 |

Both units come with a Carbide Flail cutter drum.

A Steel Star cutter drum is recommended when removing epoxy and corrosion on a steel surface.

USED ON: GrindLazer Standard DC21 E

See Repair manual for additional Cutter Stacking Recommendations.






| CUTTER TYPE | PROFILE | INDIVIDUAL CUTTER | FULLY ASSEMBLED DRUM | DRUM REBUILD KIT | CUT WIDTH | #CUTTERS | #SPACERS | #RODS |
|---|---------|--------------------------|----------------------|------------------|-------------|----------|----------|-------|
| CARBIDE FLAIL | | DRUM STYLE CUTTER | | | | | | |
|  | - | 19A009 | - | - | - | 1 | - | - |
| | Fine | - | 25M891 | 25M892 | 2 in / 5 cm | 48 | 6 | 6 |
| | Medium | - | 25M889 | 25M890 | 2 in / 5 cm | 36 | 42 | 6 |
| | Course | - | 25N060 | 25N065 | 2 in / 5 cm | 30 | 60 | 6 |
| STEEL STAR | | DRUM STYLE CUTTER | | | | | | |
|  | - | 19A063 | - | - | - | 1 | - | - |
| | Fine | - | 25M909 | 25M910 | 2 in / 5 cm | 90 | 0 | 6 |
| | Medium | - | 25M905 | 25N066 | 2 in / 5 cm | 54 | 60 | 6 |
| CARBIDE STAR | | DRUM STYLE CUTTER | | | | | | |
|  | - | 19A005 | - | - | - | 1 | - | - |
| | Fine | - | 25M903 | 25M904 | 2 in / 5 cm | 54 | 0 | 6 |
| | Medium | - | 25M901 | 25M902 | 2 in / 5 cm | 42 | 36 | 6 |

USED ON: GrindLazer Standard RC71 E

See Repair manual for additional Cutter Stacking Recommendations.



| CUTTER TYPE | PROFILE | INDIVIDUAL CUTTER | FULLY ASSEMBLED DRUM | DRUM REBUILD KIT | CUT WIDTH | #CUTTERS | #SPACERS | #RODS |
|---|---------|----------------------------|----------------------|------------------|----------------|----------|----------|-------|
| CARBIDE FLAIL | | ROTARY STYLE CUTTER | | | | | | |
|  | - | 19A009 | - | - | - | 1 | - | - |
| | Fine | - | 25M915 | 25M916 | 7 in / 17.5 cm | 42 | 36 | 6 |
| | Medium | - | 25M911 | 25N068 | 7 in / 17.5 cm | 28 | 7 | 7 |
| STEEL STAR | | ROTARY STYLE CUTTER | | | | | | |
|  | - | 19A063 | - | - | - | 1 | - | - |
| | Fine | - | 25M919 | 25M920 | 7 in / 17.5 cm | 21 | 21 | 7 |
| | Medium | - | 25M917 | 25M918 | 7 in / 17.5 cm | 56 | 7 | 7 |
| CARBIDE STAR | | ROTARY STYLE CUTTER | | | | | | |
|  | - | 19A005 | - | - | - | 1 | - | - |
| | Fine | - | 25M931 | 25M932 | 7 in / 17.5 cm | 28 | 35 | 7 |
| | Medium | - | 25M929 | 25M930 | 7 in / 17.5 cm | 21 | 28 | 7 |

VAPOUR ABRASIVE BLASTING

ECOQUIP 2™ EQP

Whether you plan to remove old coatings on deck or corrosion control on steel structures on board, it's time to consider an alternative to your power/pressure washer, chemical cleaners or hand/bristle tools. Graco's EcoQuip 2™ EQp is a portable and powerful machine that gets the job done quickly and effectively.

Graco's Vapour Abrasive Blast Equipment (EcoQuip 2™) reduces dust by up to 92% compared to traditional dry blasting. The machine uses very little water, making containment and cleanup of debris simple while still delivering the right profile.



Advantages

- **Small and portable**
Easy to move on the deck (99.8 kg/ 220 lb)
- **Versatile**
Handles both horizontal and vertical surfaces
- **ATEX approved**
Can be used on all vessel types
- **Limited health risks**
Limited risks due to vibrations caused by hand tools
- **Environmentally friendly**
Up to 92% less dust and less media consumption compared to dry blasting minimizes tenting and containment. Uses less abrasive and less water, so you have no large slurry mess to clean up

Accessories

- 17D788 Blast Control Switch Pneumatic
- 17R840 Pinch Hose Replacement Kit EQp
- 26A075 Blast Hose Replacement 1"
- 26A077 Blast Hose Extension 1"
- 26A029 1" Nozzle Extension with Handles
- 17R451 Blast Hose Replacement 1"
- 24Z140 Blast Hose Replacement 1/2"
- 24Z141 Blast Hose Extension 1/2"
- 24Z931 1/2" Nozzle Extension with Handles
- 17R024 #4 Nozzle for 1/2" Blast Hose

Basic Technical Requirements

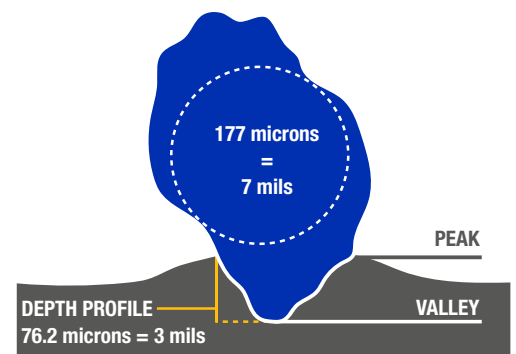
- Blast media (e.g. garnet, crushed glass, ...)
- A 1" blast hose is recommended to provide a larger blast pattern
- A water connection or an external water tank

| IMPA REFERENCE | 59 08 16 | 59 08 17 |
|---------------------|---------------------------|----------------------------|
| GRACO PART NUMBER | 278861 | 278862 |
| Graco Model | EQp ATEX Low Flow Package | EQp ATEX High Flow Package |
| Pot Capacity | 57 litres (2 ft³) | 57 litres (2 ft³) |
| Enclosure | Coated | Coated |
| Blast Circuit | 16 mm (5/8 in) | 16 mm (5/8 in) |
| Max. Compressed Air | 8.5 m³/min (300 cfm) | 8.5 m³/min (300 cfm) |
| Max. Blast Pressure | 10.3 bar (150 psi) | 10.3 bar (150 psi) |
| Nozzle | #5 | #6 |
| Blast Hose ID | 12.7 mm (1/2 in) | 25.4 mm (1 in) |
| Blast Hose Length | 15 m (50 ft) | 15 m (50 ft) |
| Manual | 3A4802 | 3A4802 |

A PERFECT SURFACE PREPARATION BY CHOOSING THE RIGHT ABRASIVE.

- ▶ Abrasives for vapour blasting should always be non-ferrous, heavier than water and not dissolving in it.
- ▶ As a general rule, the blaster should use the finest abrasive necessary to attain the required surface preparation parameters.

| Abrasive size, mesh | | #20/40 | #30/60 | #80 |
|---|---------------|--------------------------------------|-------------------------------------|-------------------------------------|
| Profile, Hy5, microns, mils; acc. to ISO8503/1* | Alumina | 75 – 115 microns 3.35 – 4.5 mils | 55 – 85 microns 2.16 – 2.95 mils | 35 – 65 microns 1.4 – 2.0 mils |
| | Garnet | 70 – 110 microns 2.75 – 4.30 mils | 50 – 80 microns 1.97 – 3.15 mils | 30 – 60 microns 1.18 – 2.36 mils |
| | Copper Slag | 60 – 100 microns 2.36 – 3.94 mils | 45 – 70 microns 1.77 – 2.75 mils | 25 – 50 microns 1.0 – 1.97 mils |
| | Crushed Glass | 55 – 75 microns 2.16 – 3.35 mils | 35 – 50 microns 1.4 – 1.97 mils | 15 – 30 microns 0.6 – 1.18 mils |



* Please take into consideration that above data is based on the most optimal setup and results may vary based on local parameters

RECOMMENDED ABRASIVE SIZES FOR ECOQUIP Eqp

| Mesh | Inch max | Inch average | Inch min | Microns max | Microns average | Microns min |
|------|----------|--------------|----------|-------------|-----------------|-------------|
| 20 | 0.0430 | 0.0270 | 0.0180 | 1 092 | 686 | 487 |
| 25 | 0.0320 | 0.0220 | 0.0140 | 813 | 559 | 356 |
| 30 | 0.0300 | 0.0190 | 0.0120 | 762 | 483 | 305 |
| 40 | 0.0220 | 0.0140 | 0.0095 | 559 | 356 | 241 |
| 45 | 0.0195 | 0.0120 | 0.0080 | 495 | 305 | 203 |
| 50 | 0.0160 | 0.0100 | 0.0065 | 406 | 254 | 165 |
| 60 | 0.0130 | 0.0080 | 0.0050 | 330 | 203 | 127 |
| 70 | 0.0115 | 0.0065 | 0.0040 | 292 | 165 | 102 |
| 80 | 0.0095 | 0.0057 | 0.0035 | 241 | 145 | 89 |

Recommended

Possible

Only if you have to. Large size abrasives are recommended only in mixtures with small abrasives like 30/60 or 20/40

DUST REMOVAL

LAZERVAC™

Cleaning up after blasting or grinding to remove all the dust can be most time-consuming, and labour is costly. All dust must be removed before you can move on to the next stage of the job because any residue left will spoil the coating. Use Graco's LazerVac for all-round surface preparation jobs to efficiently remove and reduce airborne dust.



Advantages

- **More uptime**
Toolless design allows for quick filter change-out while on the job
- **Safer jobsites**
OSHA-compliant filtration removes dust, resulting in a safer environment
- **Reduced filter clogging**
Separate motor operates dual paddles, which knock down the debris from the filter while you work, preventing filter clogging

Accessories

- 17X185 Filter for LazerVac 330 (1 piece)
- 17X695 Dust bags for LazerVac 330 (20 pieces)
- 17X156 Standard vacuum hose (9 m/29.5 ft)
- 17X704 High-temperature vacuum hose (9 m/29.5 ft)

| IMPA REFERENCE | |
|-------------------------|--|
| GRACO PART NUMBER | 26B003(EU) / 26B004(IT) 26B005(CH) / 26B006(DK) |
| Graco Model | LazarVac 330 |
| Air Power - Air Watts | 1665 |
| Air Flow - l/sec. (cfm) | 175 l/sec (375 cfm) |
| Vacuum Pressure | 186.8 mmHg (100") water |
| Capacity | 75 litres (20 gal) |
| Motor Engine cc (hp) | 230V electric (3.0) |
| Manual | 3A5576 |



3

2

1

Cable Line 3 TESTER
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR

Cable Line 2 TESTER
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR

Cable Line 1 TESTER
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR
100% 2.1 TONNES 2000 BAR

1.4 TONNES 12.000 BAR
1.4 TONNES 12.000 BAR
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1.4 TONNES 12.000 BAR

PAY OUT

ELECTRIC OPERATED DIAPHRAGM PUMPS

HUSKY™ E-SERIES

The Husky™ E-series consists of unique electric pumps. They combine the advantages of an air-operated double diaphragm pump into an electric pump. The Husky™ E-series are the only electric pumps that can stall under pressure, without damaging the pump. They are the ideal solution for all onboard fluid transfers when air supply is an issue.



Advantages

- Energy efficient**
 Electric drive reduces energy consumption up to 5x compared to traditional air operated diaphragm pumps
- Stall under pressure**
 Patent pending technology allows the pumps to stall under pressure preventing pump failures from clogged lines or closed valves
- Seal-less design**
 Eliminates leaking and failures due to run-dry pump conditions
- Easy to move**
 Available in cart-mount

| | |
|---------------------------|--|
| IMPA REFERENCE | 59 17 70 |
| GRACO PART NUMBER | 648142 |
| Graco Model | Husky 1050e |
| Connection Size | 1 in |
| Thread Type | NPT(f) or BSPT |
| Max. Flow Rate | 148 lpm (48 gpm) |
| Max. Discharge Pressure | 4.8 bar (0.48 MPa, 70 psi) |
| Materials of Construction | Aluminium |
| Centre Section | Aluminium |
| Maximum Solids | 3.2 mm (1/8 in) |
| AC Motor Power | 2 HP |
| BLDC Motor Power | 2.2 HP |
| Pump Weight | 33.6 kg - 49.7 kg (80 lb - 109.5 lb) (depending on configuration) |
| Instruction Manual | 334188 |
| Repair Parts Manual | 334189 |

AIR OPERATED DOUBLE DIAPHRAGM PUMPS

HUSKY™

Husky™ pumps are the perfect solution for bilge evacuation or when pumping oil out of barrels, seawater to wash the deck, or sludge out of the cargo area. They are designed to help you get the job done right every time, and are built to save you money. Reliable, efficient, accurate, safe and clean: built to give you peace of mind even in the harshest sea conditions.

Advantages

- **ATEX approved**
A risk-free solution for every vessel type
- **Rugged construction**
Resists corrosion for reliable performance and long life
- **Designed to last**
Heavy-duty design offers long life, increased productivity and lower overall cost of ownership: diaphragms last five times longer than others in its class
- **Flow rates and sizes**
Up to 1135 lpm (300 gpm). Port sizes ranging from ¼" to 3" in NPT, BSP, and flange options
- **Easy maintenance**
The Husky has fewer parts than industry peer. The complete air valve is externally accessible so it can be serviced fast and easily without removing the pump
- **Modular air valve**
Stall-free, low pulsation air valve provides smooth and rapid changeover for increased efficiency and minimizes downtime



AIR OPERATED DOUBLE DIAPHRAGM PUMPS > MODEL OVERVIEW

| IMPA | 59 17 65 | 59 17 66 | 59 17 67 |
|---------------------------|---|--|---|
| Graco Model | HUSKY 205 PLASTIC | HUSKY 307 PLASTIC | HUSKY 515 PLASTIC |
| Connection Size | 6.3 mm (1/4 in) | 9.4 mm (3/8 in) | 12.7 mm (1/2 in) and 19.1 mm (3/4 in) |
| Thread Type | NPT or BSP | NPT or BSP | NPT or BSP |
| Air Valve | Standard and Remote | Standard | Standard and Remote |
| Max. Flow Rate | 19 lpm (5 gpm) | 26 lpm (7 gpm) | 57 lpm (15 gpm) |
| Max. Discharge Pressure | 7 bar (0.7 MPa, 100 psi) | 7 bar (0.7 MPa, 100 psi) | 7 bar (0.7 MPa, 100 psi) |
| Materials of Construction | Polypropylene | Polypropylene | Polypropylene |
| Centre Section | Polypropylene | Polypropylene | Polypropylene |
| Materials for Seats | | <ul style="list-style-type: none"> • Acetal • Polypropylene • Stainless Steel | <ul style="list-style-type: none"> • Acetal • Duckbill • Polypropylene • Stainless Steel |
| Materials for Balls | <ul style="list-style-type: none"> • Acetal • Polypropylene • PVDF | <ul style="list-style-type: none"> • Buna • PTFE • Santoprene • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • PTFE • Stainless Steel • TPE |
| Materials for Diaphragms | <ul style="list-style-type: none"> • PTFE • Santoprene | <ul style="list-style-type: none"> • Buna • PTFE • Santoprene • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • PTFE • Stainless Steel • TPE |
| Maximum Solids | 1.5 mm (0.06 in) | 1.6 mm (0.063 in) | 2.5 mm (0.094 in) |
| Pump Weight | 0.9 kg (2.0 lb) Polypropylene | 2.4 kg (5.2 lb) Polypropylene | 2.9 kg (6.5 lb) Polypropylene |
| Instruction Manual | 308652 | 308553 | 308981 |
| Repair Parts Manual | | | |

| | 59 17 68 | |
|--|---|---|
| HUSKY 716 METAL | HUSKY 1050 PLASTIC | HUSKY 1050 METAL |
| 19.1 mm (3/4 in) | 25.4 mm (1 in) | 25.4 mm (1 in) |
| NPT or BSP | ANSI/DIN Flange | NPT or BSP |
| Standard and Remote | Standard, Smart and Remote | Standard, Smart and Remote |
| 61 lpm (16 gpm) | 189 lpm (50 gpm) | 189 lpm (50 gpm) |
| 7 bar (0.7 MPa, 100 psi) | 8.6 bar (0.9 MPa, 125 psi) | 8.6 bar (0.9 MPa, 125 psi) |
| Aluminium / 316 Stainless Steel | Polypropylene | 316 Stainless Steel / Aluminium |
| Polypropylene | Polypropylene | <ul style="list-style-type: none"> • Coated Aluminium • Polypropylene |
| <ul style="list-style-type: none"> • Acetal • Polypropylene • Stainless Steel | <ul style="list-style-type: none"> • Polypropylene | <ul style="list-style-type: none"> • 316 SST • Acetal • Geolast • Polypropylene • Santoprene |
| <ul style="list-style-type: none"> • Buna • Duckbill • Fluoroelastomer • Polypropylene • PTFE • Santoprene TPE | <ul style="list-style-type: none"> • Santoprene • PTFE | <ul style="list-style-type: none"> • 316 SST • Acetal • Geolast • PTFE • Santoprene |
| <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Polypropylene • PTFE • Santoprene | <ul style="list-style-type: none"> • PTFE/EPDM 2 Piece • Santoprene | <ul style="list-style-type: none"> • Geolast • PTFE/EPDM 2 Piece • Santoprene |
| 2.5 mm (0.094 in) | 3.2 mm (0.125 in) | 3.2 mm (0.125 in) |
| 3.9 kg (8.5 lb) Aluminium 8.2 kg (18 lb) Stainless Steel | 8.2 kg (18 lb) Polypropylene | 10.4 kg (23 lb) Aluminium 16.5-18.6 kg (36.3-41 lb) Stainless Steel |
| 308981 | 312877 | 312877 |
| 308797 | 313435 | 313435 |

AIR OPERATED DOUBLE DIAPHRAGM PUMPS > MODEL OVERVIEW

| IMPA | 59 17 69 | | |
|---------------------------|--|--|---|
| Graco Model | HUSKY 1590 PLASTIC | HUSKY 1590 METAL | HUSKY 2150 PLASTIC |
| Connection Size | 38.1 mm (1-1/2 in) | 38.1 mm (1-1/2 in) | 50.8 mm (2 in) |
| Thread Type | ANSI | NPT or BSP | ANSI/DIN Flange |
| Air Valve | Standard and Remote | Standard and Remote | Standard and Remote |
| Max. Flow Rate | 379 lpm (100 gpm) | 379 lpm (100 gpm) | 568 lpm (150 gpm) |
| Max. Discharge Pressure | 8.3 bar (0.8 MPa, 120 psi) | 8.3 bar (0.8 MPa, 120 psi) | 8.3 bar (0.8 MPa, 120 psi) |
| Materials of Construction | Polypropylene | 316 Stainless Steel / Aluminium | Polypropylene |
| Centre Section | <ul style="list-style-type: none"> • 316 Stainless Steel • Coated Aluminium | <ul style="list-style-type: none"> • 316 Stainless Steel • Coated Aluminium | <ul style="list-style-type: none"> • 316 Stainless Steel • Coated Aluminium |
| Materials for Seats | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Hardened SST • Polypropylene • Stainless Steel | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • Hardened SST • Polypropylene • Santoprene • Stainless Steel • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Polypropylene • PVDF • Stainless Steel |
| Materials for Balls | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • Stainless Steel • TPE | <ul style="list-style-type: none"> • Acetal • Buna • Fluoroelastomer • Geolast • Hardened SST • PTFE • Santoprene • Stainless Steel • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • Santoprene • TPE |
| Materials for Diaphragms | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • Santoprene • TPE | <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • Santoprene • TPE |
| Maximum Solids | 4.8 mm (0.188 in) | 4.8 mm (0.188 in) | 6.3 mm (0.25 in) |
| Pump Weight | 16 kg (35 lb) Polypropylene | 15.2 kg (33.5 lb) Aluminium 40 kg (86 lb) Stainless Steel | 22 kg (49 lb) Polypropylene |
| Instruction Manual | 308549 | 308441 | 308550 |
| Repair Parts Manual | | | |

| HUSKY 2150 METAL | HUSKY 3300 PLASTIC | HUSKY 3300 METAL |
|---|--|---|
| 50.8 mm (2 in) | 76.2 mm (3 in) | 76.2 mm (3 in) |
| NPT or BSP | ANSI/DIN Flange | NPT/BSP/ DIN/ANSI (AL only) |
| Standard and Remote | Standard | Standard |
| 568 lpm (150 gpm) | 1059 lpm (280 gpm) | 1135 lpm (300 gpm) |
| 8.3 bar (0.8 MPa, 120 psi) | 7 bar (0.7 MPa, 100 psi) | 8.6 bar (0.9 MPa, 125 psi) |
| Polypropylene / Aluminium / 316 Stainless Steel | Polypropylene | 316 Stainless Steel, Aluminium |
| <ul style="list-style-type: none"> • 316 Stainless Steel • Coated Aluminium | <ul style="list-style-type: none"> • Polypropylene | <ul style="list-style-type: none"> • Aluminum, Polypropylene* (*SST pump only) |
| <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Polypropylene • PVDF • Santoprene • Stainless Steel • TPE | <ul style="list-style-type: none"> • Polypropylene • Santoprene • Stainless Steel | <ul style="list-style-type: none"> • Acetal • Geolast • Santoprene • Stainless Steel • TPE |
| <ul style="list-style-type: none"> • Acetal • Buna • Fluoroelastomer • Geolast • Hardened SST • PTFE • Santoprene • TPE | <ul style="list-style-type: none"> • FKM • PTFE • Santoprene | <ul style="list-style-type: none"> • Acetal • Geolast • PTFE • Santoprene |
| <ul style="list-style-type: none"> • Buna • Fluoroelastomer • Geolast • PTFE • Santoprene • TPE | <ul style="list-style-type: none"> • 2 pc PTFE • FKM • Santoprene | <ul style="list-style-type: none"> • 2 pc PTFE • Geolast • Santoprene • TPE |
| 6.3 mm (0.25 in) | 12.7 mm (0.5 in) | 12.7 mm (0.5 in) |
| 26.3 kg (58 lb) Aluminium 50.3 kg (111 lb) Stainless Steel | 90.7 kg (200 lb) Polypropylene | 68 kg (150 lb) Aluminium 115.6 kg (255 lb) Stainless Steel |
| 308368 | 3A0410 | 3A0410 |
| | 3A0411 | 3A0411 |

POPULAR MODELS






▶ HUSKY 515 – ½ INCH

- Designed to handle all fluids
- Ideal for smaller onboard jobs such as emptying and filling vessels with chemical and petroleum fluids
- Mainly used to transfer lubricants to the motor or other parts which need lubrication

| PART NUMBER | DESCRIPTION |
|--------------------|---|
| D5B911 | PP fluid section, centre section, porting and seats. PTFE O-rings, balls and diaphragms - Plastic |
| REPAIR KITS | |
| D05001 | 515 Diaphragms, PTFE |
| 241657 | 515 Air Valve |




▶ HUSKY 1050 – 1 INCH

- The best solution for transferring sediment from the bilges in no time
- Can handle erosion and corrosion
- Light weight and easy to carry around on board
- Stainless Steel models are ATEX certified and ensure great safety when transferring chemicals and petroleum liquids in hazardous environments




| PART NUMBER | DESCRIPTION |
|--|---|
| 649006  | PP fluid section, centre section, porting, seats. PTFE O-rings, balls, diaphragms - Plastic |
| 647671  | PP fluid section, centre section, porting. Buna seats, balls, diaphragms - Metal |
| 647156  | Alu fluid section, centre section, porting. Acetal seats. PTFE O-rings, balls, diaphragms - Metal |
| 651042  | SST fluid section, porting. Aluminium centre section. Acetal seats. PTFE O-rings, balls, diaphragms - Metal |
| 651041  | SST fluid section, porting. Aluminium centre section, PP seats. PTFE O-rings, balls, diaphragms - Metal |
| REPAIR KITS | |
| 24B627 | 1050 Diaphragm, PTFE |
| 24B768 | 1050 Air Valve |

▶ HUSKY 1590 – 1- ½ INCH

- Used in shipbuilding industry for emptying the bilges
- Able to transfer any type of fluid on a ship

| PART NUMBER | DESCRIPTION |
|--|--|
| DB2911 | PP fluid section porting, seats. Aluminium centre section. PTFE O-rings, balls, diaphragms - Plastic |
| DBC777  | Alu fluid section, porting, centre section. Buna seats, balls, diaphragms - Metal |
| DBC911  | Alu fluid section, porting, centre section. Buna seats, balls, diaphragms - Metal |
| DTD311  | SST fluid section, centre section, porting, seats. PTFE O-rings, balls, diaphragms - Metal |
| REPAIR KITS | |
| D0C001 | 1590 Diaphragm, PTFE (for P/N DB2911) |
| D0B007 | 1590 Diaphragm, Buna (for P/N DBC777) |
| D0B001 | 1590 Diaphragm, PTFE (for P/N DBC911) |
| 236273 | 1590 Air Valve (for P/N DBC911) |
| 255061 | 1590 Air Valve (for P/N DTD311) |




- ▶ **HUSKY 2150 – 2 INCH**
 - Used for transferring large amounts of oil and/or chemical products
 - Emptying oil and chemical tanks
 - Cleaning the tanks before other liquids need to be transferred in the same tank

| PART NUMBER | DESCRIPTION |
|--|---|
| DF2911 | PP fluid section, porting, seats. Aluminium centre section. PTFE O-rings, balls, diaphragms s - Plastic |
| DFC777  | Alu fluid section, centre section, porting. Buna seats, balls, diaphragms - Metal |
| DFC911  | Alu fluid section, centre section, porting. PP seats. PTFE O-rings, balls, diaphragms - Metal |
| DVD311  | SST fluid section, centre section, porting, seats. PTFE O-rings, balls, diaphragms - Metal |

REPAIR KITS

| | |
|--------|---|
| D0G001 | 2150 Diaphragm, PTFE (for P/N DF2911) |
| D0F001 | 2150 Diaphragm, Buna (for P/N DFC777) |
| D0F001 | 2150 Diaphragm, PTFE (for P/N DFC911-DVD311) |
| 236273 | 2150 Air Valve (for P/N DF2911 – DFC777 – DFC911) |
| 255061 | 2150 Air Valve |

- ▶ **HUSKY 3300 – 3 INCH**
 - Only used for larger transfer applications such as filling and emptying tanks
 - Can handle almost all fluids used on a ship

| PART NUMBER | DESCRIPTION |
|--|---|
| 652404 | PP fluid section, centre section, porting, seats. PTFE O-rings, balls, diaphragms - Plastic |
| 652439 | PP Fluid section, porting, seats. Aluminium centre section. PTFE O-rings, balls, diaphragms - Plastic |
| 652146  | Alu fluid section, centre section, porting. Buna seats, O-rings, balls, diaphragms - Metal |
| 652160  | Alu fluid section, centre section, porting, seats. PTFE O-rings, balls, diaphragms - Metal |
| 652882  | SST Fluid section, porting, seats. Aluminium centre section. PTFE O-rings, balls, diaphragms - Metal |

REPAIR KITS

| | |
|--------|---------------------------------------|
| 24K209 | 3300 Diaphragm, PTFE (for P/N 652404) |
| 24K897 | 3300 Diaphragm, Buna (for P/N 652439) |
| 24K860 | 3300 Air Valve |

SPOT REPAIR & SMALL MAINTENANCE JOBS

MERKUR - PNEUMATIC AIRLESS SPRAYER

Graco offers you superior performance with advanced technology. To fit a wider variety of applications, you can choose from four different motor options, making the Merkur a suitable unit for almost all small onboard maintenance jobs. Ergonomy, lower emissions, cost-saving and finishing are the keywords of this new pump generation.

Advantages

- Superior performance**
 Low pulsation and no stalling, low air consumption and easier to clean
- Ergonomy**
 A compact and lightweight unit, equipped with control plate at operator height, is easy to use and move around
- Reduced costs**
 Fewer spare parts offers an increased ease of serviceability and a lower cost of ownership
- Durable construction**
 The stainless steel pump construction can withstand the harsh onboard marine environment



| IMPA REFERENCE | 27 08 46 | 27 08 48 | 27 08 44 | | 27 08 49 |
|--|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| GRACO PART NUMBER | G30C55 | G36C11 | G48C07 | 16U920 | 16U918 |
| Graco Model | MERKUR SPRAYER 30:1 - CART | MERKUR SPRAYER 36:1 - CART | MERKUR SPRAYER 48:1 - CART | MERKUR SPRAYER 48:1 - CART | MERKUR SPRAYER 72:1 - CART |
| Pump Ratio | 30:1 | 36:1 | 48:1 | 48:1 | 72:1 |
| Spray Gun Type | XTR | G40 | G40 | XTR | XTR |
| Fluid Flow at 60 cpm | 4.5 lpm (1.2 gpm) | 6 lpm (1.6 gpm) | 4.5 lpm (1.2 gpm) | 4.5 lpm (1.2 gpm) | 3 lpm (0.8 gpm) |
| Max. Fluid Outlet Pressure | 206 bar (20.6 MPa/ 3000 psi) | 248 bar (24.8 MPa/ 3600 psi) | 275 bar (27.5 MPa, 4000 psi) | 330 bar (33 MPa, 4800 psi) | 500 bar (50 MPa, 7200 psi) |
| Max. Air Inlet Pressure | 7 bar (0.7 MPa, 100 psi) | 7 bar (0.7 MPa, 100 psi) | 5.8 bar (0.58 MPa, 85 psi) | 7 bar (0.7 MPa, 100 psi) | 7 bar (0.7 MPa, 100 psi) |
| Air Consumption at 7 bar (100 psi) and 20 cpm | 0.48 m ³ /min (17 scfm) | 0.74m ³ /min (26 scfm) | 0.74m ³ /min (26 scfm) | 0.57m ³ /min (20 scfm) | 0,57m ³ /min (20 scfm) |
| Fluid Inlet Size | 3/4" npt(m) | 3/4" npt(m) | 3/4" npt(m) | 1-1/4" npt (m) | 1-1/4" npt (m) |
| Fluid Outlet Size | 3/8" npt(m) | 3/8" npt(m) | 3/8" npt(m) | 3/8" npt(m) | 3/8" npt(m) |
| Air Inlet (Motor) | 1/4" npt(f) | 1/2" npt(f) | 1/2" npt(f) | 1/2" npt(f) | 1/2" npt(f) |
| Weight | 108 kg (238 lb) | 114 kg (251 lb) | 110 kg (242.5 lb) | 45 kg (99 lb) | 45 kg (99 lb) |
| Manual | 312797 | 312797 | 312797 | 332245 | 332245 |
| Manual Motor | 312796 | 312796 | 312796 | 312796 | 312796 |

Accessories

| | | | |
|--------|---|--------|---|
| 256410 | Hopper 5 l (1.5 gal) polyethylene | 256425 | Fluid Filter Drain Valve, Stainless Steel 350 bar (35 MPa / 5000 psi) |
| 222121 | Fluid Regulator: Stainless Steel Maximum working pressure: 103 bar (10.3 MPa / 1500 psi) Regulator range: 10-28 bar (1-2.8 MPa /150-1200 psi) | 224458 | Replacement Filter Screen Element 3-pack elements, 30 mesh, SST |
| | | 224459 | Replacement Filter Screen Element 3-pack elements, 60 mesh, SST |
| 24A587 | Pump Outlet Fluid Filter: Stainless Steel 60 mesh (250 micron), 350 bar (35 MPa / 5000 psi) | 24A540 | Air Control Gauge Covers 5 sheets of 10 covers |

PRESIDENT & MONARK - PNEUMATIC AIRLESS SPRAYERS

As two of the most reliable paint sprayers in the industry, the President and Monark are considered the reference for onboard paint jobs. Their rugged design makes them easy to service, reducing downtime and repair costs. The units are ready-to-use and are equipped with gun fluid hose swivel and whip hose, providing your operators the maximum comfort and ease of handling.

Advantages

- **Proven and durable**
Reliable, low maintenance air motor
- **Small and portable**
Easy to move around the ship
- **Positive displacement**
2-ball piston design provides uniform and easily controlled delivery
- **Versatile**
Stainless steel or carbon steel models available to handle various fluids
- **Flexible**
Drum and stubby length models available for mounting and application flexibility



| IMPA REFERENCE | | 27 01 06 | | | 27 01 07 |
|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| GRACO PART NUMBER | 218956 | 232411 | 232433 | 224342 | 231921 |
| Graco Model | MONARK 5:1 200L DRUM | MONARK 23:1 CART | MONARK 23:1 PAIL | PRESIDENT 10:1 BARE | PRESIDENT 30:1 CART |
| Pump Ratio | 5:1 | 23:1 | 23:1 | 10:1 | 30:1 |
| Max. Fluid Working Pressure | 35 bar (3.5 MPa, 507 psi) | 160 bar (16 MPa, 2300 psi) | 160 bar (16 MPa, 2300 psi) | 125 bar (12.5 MPa, 1800 psi) | 210 bar (21 MPa, 3000 psi) |
| Max. Air Inlet Pressure | 12 bar (1.2 MPa, 180 psi) | 7 bar (0.7 MPa, 100 psi) | 7 bar (0.7 MPa, 100 psi) | 12 bar (1.2 MPa, 180 psi) | 7 bar (0.7 MPa, 100 psi) |
| Air Consumption at 7 bar (100 psi) | 0.08 m ³ /min (3 scfm) | 0.056 m ³ /min (2 scfm) | 0.056 m ³ /min (2 scfm) | 0.29 m ³ /min (10 scfm) | 0.29 m ³ /min (10 scfm) |
| Max. Flow Ratio | 7.95 lpm (2.1 gpm) | 2 lpm (0.5 gpm) | 2 lpm (0.5 gpm) | 11.36 lpm (3 gpm) | 4 lpm (1.05 gpm) |
| Air Hose Connection | NPT 3/8 female | NPT 3/8 Female | NPT 3/8 Female | NPT 3/8 Female | NPT 3/8 Female |
| Paint Hose Connection | NPT 3/4 Female | NPSM 1/4 Male | NPSM 1/4 Male | NPT 1/2 Female | NPSM 1/4 Male |
| Weight | 16.86 kg (37.16 lb) | 20 kg (45 lb) | 21 kg (46.3 lb) | 13.82 kg (30.47 lbs) | 39 kg (85 lb) |
| Manual | 307044 | 307043 | 308765 | 308116 | 308635 |
| Manual Motor | 307043 | 308762 | 307043 | 306982 | 307043 |

Repair Parts/Kits

| | |
|--------|--|
| 206728 | Repair parts kit for Monark air motors |
| 218136 | Repair kit PTFE 23:1 Monark |
| 239328 | Repair kit, 23:1 Monark |
| 207385 | Repair kit for President air motors |

SPOT REPAIR & SMALL MAINTENANCE JOBS

CLASSIC 390 PC & ST MAX 395 PC - ELECTRIC AIRLESS SPRAYERS

The Classic 390 PC and ST Max 395 PC are two of the lightest professional sprayers, making them ideal for top-quality maintenance. They are equipped with a fast and easy pump replacement system which saves you time and money due to pump repair times and changes.

Advantages

- **Flexible**
Available in compact stand version and cart version
- **Variable pressure control**
Position indicator allows repeatable setting while spraying light-to-heavier materials
- **Ready-to-spray**
Gun, filter, hose, tip and guard included
- **Less downtime**
With a spare pump ready, you will always be able to finish your job



| IMPA REFERENCE | 27 08 52 | 27 08 71 | 27 08 51 | 27 08 61 | |
|----------------------|------------------------------|---------------------------|--------------------------------|------------------------------|---------------------------|
| GRACO PART NUMBER | 17C348 | 17C347 | 17C346 | 17E864 | 17E865 |
| Graco Model | Classic 390 PC EURO Stand | Classic 390 PC UK – Stand | Classic 390 PC multicord Stand | ST Max 395 PC EURO Stand | ST Max 395 PC EURO Hi Boy |
| Power Source | 230V | 110V | | 230V | 230V |
| Max Working Pressure | 228 bar (22.8 MPa, 3300 psi) | | | 228 bar (22.8 MPa, 3300 psi) | |
| Max Fluid Flow | 1.8 lpm (0.47 gpm) | | | 2 lpm (0.54 gpm) | |
| Max Tip Size – 1 gun | 0.53 mm (0.021") | | | 0.58 mm (0.023") | |
| Min Generator | 3000W | | | 3500W | |
| Motor HP | 5/8 DC | | | 7/8 TEFC DC | |
| Weight | 14 kg (30 lb) | | | 20.5 kg (45.1 lb) | 30 kg (66 lb) |
| Manual | 334567 | | | 334530 | |

Accessories

- 223771 BlueMax II Hose 1/4" x 30 m (1/4" x 100 ft)
- 17Y043 Contractor Spray Gun with RAC X LP-517 tip
- LP517 Low Pressure RAC x LP
- 287021 RAC X Tip Extension 50 cm (20")
- 240794 BleuMax II Hose 1/4" x 15 m (1/4" x 50 ft)
- 24V490 JetRoller System 18 cm (3.54")
- 25A841 JetRoller System 23 cm (9")

ST MAX II PC PRO - ELECTRIC AIRLESS SPRAYER

Graco's midsize electric airless sprayers make it easier to get more work done in one day with increased flow and production rates. Available in compact stand or cart version, their durable design can withstand even the most rugged environments.



Advantages

- Less downtime**
 Pump can be swapped in minutes and is easy to maintain
 The design allows for fast cleaning with less water
- Variable pressure control**
 Position indicator allows repeatable setting while spraying light-to-heavier materials
- Ready-to-spray**
 Gun, filter, hose, tip and guard included
- Easy transport**
 Compact design that's lightweight and easy to move around

| IMPA REFERENCE | | 27 08 62 | 27 08 72 | 27 08 64 | 27 08 54 | 27 08 65 | 27 08 55 | 27 05 75 |
|----------------------|------------------------------|------------------------------------|----------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-----------------------------|
| GRACO PART NUMBER | 17E871 | 17E872 | 17E873 | 17E874 | 17E875 | 17E876 | 17E877 | 17E878 |
| Graco Model | ST Max 495 PC Pro EURO Stand | ST Max 495 PC Pro Multi Cord Stand | ST Max 495 PC Pro UK Stand | ST Max 495 PC Pro EURO Hi Boy | ST Max 495 PC Pro Multi Cord Hi Boy | ST Max 595 PC Pro EURO Hi Boy | ST Max 595 PC Pro Multi Cord Hi Boy | ST Max 595 PC Pro UK Hi Boy |
| Power Source | 230V | 230V | 110V | 230V | 230V | 230V | 230V | 110V |
| Max Working Pressure | 227 bar (22.7 MPa, 3300 psi) | | | 227 bar (22.7 MPa, 3300 psi) | | 227 bar (22.7 MPa, 3300 psi) | | |
| Max Fluid Flow | 2.3 lpm (0.6 gpm) | | | 2.3 lpm (0.6 gpm) | | 2.3 lpm (0.6 gpm) | | |
| Max Tip Size – 1 Gun | 0.63 mm (0.025") | | | 0.63 mm (0.025") | | 0.68 mm (0.027") | | |
| Min Generator | 3750W | | | 3750W | | 4000W | | |
| Motor HP | 1.2 Brushless DC | | | 1.2 Brushless DC | | 1.6 Brushless DC | | |
| Weight | 15 kg (34 lb) | | | 30 kg (66.1 lb) | | 33 kg (72 lb) | | |
| Manual | 334530 | | | 334530 | | 334530 | | |

CARGO HOLD MAINTENANCE & BIGGER MAINTENANCE JOBS

KING - PNEUMATIC AIRLESS SPRAYER

The Graco King pneumatic airless sprayers are easy to maintain, with low pulsation for improved performance. They are designed to withstand the harshest environmental conditions and easily handle the toughest protective coatings and corrosion control applications. The heavy-duty cart is exceptionally robust and provides protection for the pump and accessories. When looking for a dependable, durable and rugged airless protective coatings sprayer to get the job done, choose the Graco King.

Advantages

- **Simple maintenance**
All motor parts are easily accessible and require simple maintenance
- **Reduced icing potential**
Up to 70% reduction with thermally isolated poppets
- **Less pulsation**
Higher exhaust capacity in the air valve for faster, smoother changeover and no pressure drops
- **Improved sealing and strength**
Enhanced edge loading and seven throat pickings instead of five
- **Multi-gun capabilities**
The ability to spray with up to six guns is now a reality, thanks to the more powerful and efficient changeovers



| IMPA REFERENCE | | 27 08 12 | 27 08 13 |
|-------------------------|---------------------------------|---------------------------------|---------------------------------|
| GRACO PART NUMBER | K40FH1 | K60FH1 | K70FH1 |
| Graco Model | King XL40-180 - Heavy-Duty Cart | King XL60-220 - Heavy-Duty Cart | King XL70-180 - Heavy-Duty Cart |
| Pump Ratio | 40:1 | 60:1 | 70:1 |
| Motor Type | 3400 cc XL Air Motor | 6500 cc XL Air Motor | |
| Output Per Cycle | 180 cc | 220 cc | 180 cc |
| Max. Working Pressure | 262 bar (26.2 MPa, 3800 psi) | 417 bar (41.7 MPa, 6000 psi) | 500 bar (50 MPa, 7250 psi) |
| Max. Air Input Pressure | 7 bar (0.7 MPa, 100 psi) | | |
| Output at 60 cpm | 11 lpm (2.9 gpm) | 12.9 lpm (3.4 gpm) | 11 lpm (2.9 gpm) |
| Manual | 3A0293 | 3A5422D | 3A5422D |

Accessories

- 262826 Gun Splitter, 2 guns, with independent flush
206994 Throat Seal Liquid (TSL)

E-XTREME - ELECTRIC AIRLESS SPRAYER

Rugged and reliable, the Graco e-Xtreme electric airless sprayer is the world's first electric sprayer for protective coatings and corrosion control applications approved for hazardous locations. The sprayer provides long-lasting durability that boosts your productivity. The unit is ideal for medium to big jobs and is still easy to move around on board. In addition, electric technology eliminates pulsation and motor icing, making your jobs run smoothly - every time!

Advantages

- **Portable**
Easy to move around on deck
- **Reliable**
Electric power is safe, reliable and convenient
- **No icing**
Reduces downtime due to freeze-ups
- **Plug-in and spray**
No compressor needed



| IMPA REFERENCE | 27 01 09 | | 27 01 10 | |
|--------------------------|---|----------------------------|--|----------------------------|
| GRACO PART NUMBER | 24Z901 | 24Z909 | 24Y901 | 24Y909 |
| Graco Model | e-Xtreme Ex35 - cart mount | e-Xtreme Ex35 - wall mount | e-Xtreme Ex45 - cart mount | e-Xtreme Ex45 - wall mount |
| Max. Working Pressure | 240 bar (24 MPa, 3500 psi) | | 310 bar (31 MPa, 4500 psi) | |
| Max Recommended Tip Size | 0.53 mm (0.021") at 276 bar (28 MPa, 400 psi) spray pressure | | 0.58 mm (0.023") at 220 bar (22 MPa, 3200 psi) spray pressure | |
| Min Hose Length and ID | 15 m (50ft) - 10 mm (3/8") | | | |
| Input Voltage | 200 to 240 V, single phase, 50/60 Hz | | | |
| Input Power | 2.5 kVA | | | |
| Sound Pressure | 70 dBA | | | |
| Pump Lower | 145 cc | | 180 cc | |
| Weight | 135 kg (295 lb) | | | |
| Manual | 3A3164 | | 3A3164 | |

Repair Parts/Kits

| | | | |
|--------|---|--------|------------------------------------|
| 24F969 | Repair kit for Ex35, lower (180 cc) | 16W645 | Gearbox oil for electric driver 1l |
| 24F971 | Repair kit for Ex45, lower (145 cc) | 24Z269 | Cable assembly with 1 gland, 30 m |
| 244459 | Fluid filter element, 60 mesh, twin pack | 24Z273 | Cable assembly with 2 glands, 30 m |
| 244468 | Fluid filter element, 100 mesh, twin pack | | |

AIRLESS SPRAY GUNS



▶ AIRLESS SPRAY GUNS – CONTRACTOR SERIES – 248 BAR (2.48 MPA, 3600 PSI)

The Contractor Guns from Graco are designed to be the longest lasting and most reliable airless spray guns. They aim to provide the maximum performance, reliability and comfort. Their durable nickel finish is corrosion resistant and easier to clean.

| IMPA REFERENCE | 27 01 21 | | | | | |
|----------------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| GRACO PART NUMBER | 288420 | 288421 | 288425 | 288429 | 288430 | 288431 |
| Graco Model | Contractor | Contractor | Contractor | Contractor FTx | Contractor FTx | Contractor FTx |
| Max Fluid Working Pressure | 248 bar (24.8 MPa, 3600 psi) | | | | | |
| Inlet Size | 1/4 NPSM | | | | | |
| Orifice Diameter | 3.2 mm (0.125") | | | | | |
| Trigger | 2-finger trigger | 2-finger trigger | 4-finger trigger | 2-finger trigger | 4-finger trigger | 4-finger trigger |
| Tip | RAC X 515 Switch tip | RAC 5 517 Switch tip | RAC X 517 Switch tip | RAC X 515 Switch tip | RAC X 515 Switch tip | RAC 5 517 Switch tip |
| Tip Guard | RAC X HandTite guard | RAC 5 HandTite guard | RAC X HandTite guard | RAC X HandTite guard | RAC X HandTite guard | RAC 5 HandTite guard |
| Weight | 624 gr (22 oz) | | | | | |



▶ AIRLESS SPRAY GUNS – XTR5 SERIES - 345 BAR (34.5 MPA, 5000 PSI)

The XTR5-series has a rugged, ergonomic design that handles the toughest protective coatings. The small profile allows easy access and spraying in tight areas with a max 345 bar (34.5 MPa, 5000 psi) fluid pressure.

| IMPA REFERENCE | 27 09 01 | 27 09 02 | 27 09 03 |
|-------------------|---------------------|---------------------|---------------------|
| GRACO PART NUMBER | XTR500 | XTR502 | XTR504 |
| Graco Model | XTR-5 | XTR-5 | XTR-5 |
| Handle Shape | Round | Oval-insulated | Round |
| Trigger | Four-finger trigger | Four-finger trigger | Four-finger trigger |
| Tip | No tip | 519 XHD RAC | 519 XHD RAC |



▶ **AIRLESS PAINT SPRAY HAND GUNS – SILVER PLUS - 345 BAR (34.5 MPA, 5000 PSI)**

Graco’s Silver Guns are known for their durability, long life, spraying performance, and comfortable design. They are the preferred gun for high pressure applications, with a 345 bar (34.5 MPa, 5000 psi) fluid rating for spraying the toughest materials.

| IMPA | 27 01 23 | | |
|----------------------------|------------------------------|-----------------------------|----------------------|
| GRACO PART NUMBER | 235460 | 235461 | 243283 |
| Graco Model | Silver Plus | Silver Plus | Silver Plus |
| Max Fluid Working Pressure | 345 bar (34.5 MPa, 5000 psi) | | |
| Inlet Size | 1/4 NPSM | | |
| Orifice Diameter | 2.3 mm (0.09") | | |
| Trigger | 2-finger trigger | 4-finger trigger | 2-finger trigger |
| Tip | No tip | No tip | RAC5 5179 switch tip |
| Tip Guard | Standard dripless tip guard | Standard dripless tip guard | RAC5 HandTite guard |
| Weight | 1.03 kg (2.76 lb) | 1.3 kg (3.5 lb) | 0.51 kg (1.13 lb) |



▶ **AIRLESS SPRAY GUNS – XTR7 SERIES – 500 BAR (50 MPA, 7250 PSI)**

The XTR7-series is built for extreme conditions. They have a fluid rating of 500 bar (50 MPa, 7250 psi). And their lightweight, compact design allows for easy maneuverability.

| IMPA REFERENCE | 27 09 04 | 27 09 05 | 27 09 06 |
|-------------------|---------------------|---------------------|---------------------|
| GRACO PART NUMBER | XTR700 | XTR702 | XTR704 |
| Graco Model | XTR-7 | XTR-7 | XTR-7 |
| Handle Shape | Round | Oval-insulated | Round |
| Trigger | Four-finger trigger | Four-finger trigger | Four-finger trigger |
| Tip | No tip | 519 XHD RAC | 519 XHD RAC |

TIPS

Improve spraying productivity and reduce downtime with the Graco HD RAC Switch Tips.

- Saves time – No screwdriver needed
- Change tip sizes in seconds – without removing the tip guard housing
- Locking tab ensures tip stays securely in the guard

Choose a tip with an orifice size rated for the paint or coating you'll be spraying. Size the spray tip according to the tip rating of your sprayer. If you plan on using multiple spray guns on your job, pick a tip size that matches the multiple gun tip rating of your sprayer.

The **letters** represent the Graco tip style

- PAA** = Professional Airless Applications
WR = WideRac
LP = Low Pressure
FFLP = Fine Finish Low Pressure
XHD = Extreme Heavy Duty



The **first number** indicates the fan width of the tip

The first number stands for the width of the spray distribution (the fan width). It matches the angle you are spraying at. If the number is 5, then you are spraying at an angle of 50°. Multiply that number by 5 and you have a fan width if you hold the pistol 30 cm from the surface.

5 x 5 = 25 fan width

The last **two numbers** indicate the spray orifice of the tip

The last two numbers of the tip show the size of the spray orifice, indicated in one thousandths of an inch. The higher the number, the greater the flow with which you can spray. For example, a '517' tip enables a greater flow than a '515' tip.

'17' matches an orifice of 0.017 inch or 0.43 mm.



SWITCH TIPS

RAC X

Choose RAC X tips for airless applications up to 350 bar (35 MPa, 5076 psi)

- (FF)LP tip (green) for fine finish applications
- PAA/WA tip (blue) for all professional airless applications

- 246215 Guard RAC X 7/8" thread
- 246437 Guard RAC X 1 1/16" thread
- 246770 Guard RAC X 1 8 x 1.5" thread



RAC X FFLP

MAXIMUM PRESSURE BAR/PSI/MPA:
350/5076/35.0



| FAN WIDTH | ORIFICE 0.008" | | ORIFICE 0.010" | | ORIFICE 0.012" | | ORIFICE 0.014" | | ORIFICE 0.016" | |
|----------------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE |
| 5 cm (1.97") | FFLP-108 | 27 11 20 | FFLP-110 | 27 11 21 | FFLP-112 | 27 11 22 | | | | |
| 10 cm (3.94") | FFLP-208 | 27 09 07 | FFLP-210 | 27 09 08 | FFLP-212 | 27 09 09 | FFLP-214 | 27 09 10 | | |
| 15 cm (5.9") | FFLP-308 | 27 09 17 | FFLP-310 | 27 09 18 | FFLP-312 | 27 09 19 | FFLP-314 | 27 09 20 | | |
| 20 cm (7.87") | | | FFLP-410 | 27 09 28 | FFLP-412 | 27 09 29 | FFLP-414 | 27 09 30 | | |
| 25 cm (9.84") | | | FFLP-510 | 27 09 38 | FFLP-512 | 27 09 39 | FFLP-514 | 27 09 40 | FFLP-516 | 27 11 23 |
| 30 cm (11.81") | | | | | | | | | FFLP-616 | 27 11 24 |

RAC X LP

MAXIMUM PRESSURE BAR/PSI/MPA:
280/4050/28.0



| FAN WIDTH | ORIFICE 0.013" | | ORIFICE 0.015" | | ORIFICE 0.017" | | ORIFICE 0.019" | | ORIFICE 0.021" | | ORIFICE 0.023" | | ORIFICE 0.025" | |
|----------------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE |
| 15 cm (5.9") | LP-313 | | LP-315 | | | | | | | | | | | |
| 20 cm (7.87") | | | LP-415 | | LP-417 | | LP-419 | | LP-421 | | LP-423 | | LP-425 | |
| 25 cm (9.84") | | | LP-515 | | LP-517 | | LP-519 | | LP-521 | | LP-523 | | LP-525 | |
| 30 cm (11.81") | | | | | LP-617 | | LP-619 | | LP-621 | | LP-623 | | LP-625 | |
| 35 cm (13.78") | | | | | | | | | | | LP-723 | | LP-725 | |

RAC X PAA

MAXIMUM PRESSURE BAR/PSI/MPA:
350/5076/35.0



| FAN WIDTH | ORIFICE 0.015" | | ORIFICE 0.0017" | | ORIFICE 0.0019" | | ORIFICE 0.021" | | ORIFICE 0.023" | | ORIFICE 0.025" | |
|----------------|-------------------|-----------|--------------------|-----------|--------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE |
| 10 cm (3.94") | PAA-215 | 27 09 44 | PAA-217 | 27 09 45 | PAA-219 | 27 09 46 | PAA-221 | 27 09 47 | | | | |
| 15 cm (5.9") | PAA-315 | 27 09 48 | PAA-317 | 27 09 49 | PAA-319 | 27 09 50 | PAA-321 | 27 09 53 | PAA-323 | 27 09 54 | PAA-325 | 27 09 55 |
| 20 cm (7.87") | PAA-415 | 27 09 56 | PAA-417 | 27 09 57 | PAA-419 | 27 09 58 | PAA-421 | 27 09 59 | PAA-423 | 27 09 60 | PAA-425 | 27 09 68 |
| 25 cm (9.84") | PAA-515 | 27 09 69 | PAA-517 | 27 09 70 | PAA-519 | 27 09 72 | PAA-521 | 27 09 73 | PAA-523 | 27 09 74 | PAA-525 | 27 09 75 |
| 30 cm (11.81") | PAA-615 | 27 09 76 | PAA-617 | 27 09 77 | PAA-619 | 27 09 78 | PAA-621 | 27 09 79 | PAA-623 | 27 09 80 | PAA-625 | 27 09 81 |
| 35 cm (13.78") | | | | | | | PAA-721 | 27 09 82 | PAA-723 | 27 09 83 | | |
| 40 cm (15.75") | | | PAA-817 | 27 09 84 | PAA-819 | 27 09 85 | PAA-821 | 27 09 86 | | | | |
| 60 cm (23.62") | | | | | | | PAA-1221 | 27 09 87 | WA-1223 | 27 09 88 | WA-1225 | 27 09 89 |

XHD

For heavy-duty application up to 500 bar (50 MPa, 7252 psi).
Recommended for Xtreme sprayers and XTR airless spray guns.

XHD Guard is compatible with XHD tips:

- XHD001 XHD RAC Guard (22.22 mm - 7/8")
- XHD005 XHD RAC Guard (17.46 mm - 11/16")



XHD

MAXIMUM PRESSURE BAR/PSI/MPa:
500/7252/50.0



| FAN WIDTH | ORIFICE 0.013" | | ORIFICE 0.015" | | ORIFICE 0.017" | | ORIFICE 0.019" | | ORIFICE 0.021" | | ORIFICE 0.023" | | ORIFICE 0.025" | |
|----------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|
| | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE | TIP SIZE | IMPA CODE |
| 20 cm (7.87") | XHD-413 | | XHD-415 | 27 09 11 | XHD-417 | 27 09 12 | XHD-419 | 27 09 13 | XHD-421 | 27 09 14 | XHD-423 | 27 09 15 | XHD-425 | 27 09 16 |
| 25 cm (9.84") | XHD-513 | 27 09 21 | XHD-515 | 27 09 22 | XHD-517 | 27 09 23 | XHD-519 | 27 09 24 | XHD-521 | 27 09 25 | XHD-523 | 27 09 26 | XHD-525 | 27 09 27 |
| 30 cm (11.81") | XHD-613 | 27 09 31 | XHD-615 | 27 09 32 | XHD-617 | 27 09 33 | XHD-619 | 27 09 34 | XHD-621 | 27 09 35 | XHD-623 | 27 09 36 | XHD-625 | 27 09 37 |

EXTENSIONS

▶ CLEANSHOT POLEGUN

- Provides better spray control and less fatigue
- Balanced design – no excessive weight at the end of the pole



| IMPA REFERENCE | 27 10 15 | 27 10 16 |
|----------------------------|----------------------------|----------------------------|
| GRACO PART NUMBER | 287026 | 287027 |
| Graco Model | CleanShot Polegun | CleanShot Polegun |
| Max Fluid Working Pressure | 248 bar (25 MPa, 3600 psi) | 248 bar (25 MPa, 3600 psi) |
| Inlet Size | 1/4" NPSM | 1/4" NPSM |
| Orifice Diameter | 2.27 mm (0.09") | 2.27 mm (0.09") |
| Length | 90 cm (2.95 ft) | 180 cm (5.09 ft) |
| Weight | 1.03 kg (2.76 lb) | 1.03 kg (2.76 lb) |

▶ HEAVY-DUTY EXTENSIONS

- Tough, lightweight aluminium construction
- Can be combined for extended reach up to 3.6 m (12 ft)
- Attach to any airless spray gun
- Ideal for high-pressure spraying or low pressure rolling



| IMPA REFERENCE | 27 10 15 | 232122 | 232123 | 232124 | 27 10 16 |
|----------------------------|------------------------------|-------------|--------------|--------------|--------------|
| GRACO PART NUMBER | 232121 | 232122 | 232123 | 232124 | 232125 |
| Max Fluid Working Pressure | 248 bar (24.8 MPa, 3600 psi) | | | | |
| Length | 25 cm (10") | 50 cm (20") | 100 cm (40") | 150 cm (60") | 200 cm (80") |



▶ RAC X TIP EXTENSIONS

- Includes: RAC X HandTite guard standard with 22 mm (7/8") gun nut and OneSeal

| IMPA REFERENCE | 27 10 11 | 27 10 12 | 27 10 13 | 27 10 14 | 27 10 16 |
|----------------------------|----------------------------|-------------|-------------|-------------|--------------|
| GRACO PART NUMBER | 287019 | 287020 | 287021 | 287022 | 232125 |
| Max Fluid Working Pressure | 280 bar (28 MPa, 4050 psi) | | | | |
| Length | 25 cm (10") | 38 cm (15") | 50 cm (20") | 75 cm (30") | 200 cm (80") |

JETROLLER

▶ JETROLLER

The JetRoller combines rolling and spraying into one action, saving time and labour on spray/back roll projects. It consists of a spray roller, a spray extension and a hand roller in one complete kit. Lightweight and portable, it fits existing airless sprayers and is the ideal time-saving addition to your painting arsenal. Ideal for rough or porous surfaces.



| IMPA REFERENCE | 27 04 21 | 27 04 22 | 27 04 23 | 27 04 24 | 27 04 25 |
|-------------------|---------------|----------------|---------------|---------------|---------------|
| GRACO PART NUMBER | 24U172 | 24W128 | 24V490 | 24V491 | 25A841 |
| Roll Style | USA | USA | Europe | Europe | UK |
| Roll Frame | 22.86 cm (9") | 45.72 cm (18") | 18 cm (7.08") | 25 cm (9.84") | 22.86 cm (9") |
| Tip | LTX721 | WR1223 | PAA515 | PAA721 | LTX721 |
| In-Line Valve | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45° Swivel | - | - | - | - | - |
| Clean Shot | ✓ | ✓ | ✓ | ✓ | ✓ |

HOSES

▶ BLUEMAX II HOSES

Airless hoses for small maintenance jobs

- Light weight and flexible - over 10% lighter weight and increased hose flexibility improves usability while spraying under pressure
- Highest safety standards - conductive core meets the highest worldwide safety standards unlike competitive ground wire hose designs
- Minimal hose coil memory - superior flexibility and reduced coil memory provides ease of use during coiling and uncoiling
- Corrosion resistant - plated spring guards are more corrosion resistant
- Available in a wide variety of lengths and diameters



> 227 BAR (22.7 MPA, 3300 PSI)

| IMPA REFERENCE | | | | | | | |
|-------------------|-------------------------|----------------|----------------|----------------|----------------------|-----------------|-----------------|
| GRACO PART NUMBER | 223756 | 240794 | 223771 | 240797 | 238358 | 238959 | 238359 |
| Graco Model | BlueMax II Airless Hose | | | | BlueMax II Whip Hose | | |
| Length | 4.5 m (15 ft) | 15 m (50 ft) | 30 m (100 ft) | 15 m (50 ft) | 0.9 m (3 ft) | 1.4 m (4.5 ft) | 1.8 m (6 ft) |
| Hose Diameter | 6.35 mm (1/4") | 6.35 mm (1/4") | 6.35 mm (1/4") | 9.52 mm (3/8") | 4.76 mm (3/16") | 4.76 mm (3/16") | 4.76 mm (3/16") |
| Size ID | 1.4" 18NPSM FXF | | | | 1.4" 18NPSM MXF | | |

▶ AIRLESS (AIR-ASSISTED) GUN, TIP AND HOSE KITS

- A complete set of gun and hose combined into an economical package
- Easy to keep a spare kit ready



| IMPA REFERENCE | |
|-------------------|---|
| GRACO PART NUMBER | 17Y051 |
| Graco model | Contract PC Airless Spray Gun |
| | RAC X LP517 SwitchTip |
| | BlueMax II Airless Hose 6.35 mm (1/4") x 15 m (50 ft) |
| | BlueMax II Airless Whip Hose 4.76 mm (3/16") x 1.4 m (4.5 ft) |

▶ XTREME DUTY HOSES

High-pressure hoses for air-operated sprayers

- Complete line of strong and safe hoses
- Colour-coded by pressure to take the guesswork out of using the right hose
- Easy-to-order, configurable part numbering system
- Durable design reduces downtime



> 310 BAR (31 MPA, 4500 PSI)

| IMPA REFERENCE | 27 10 21 | 27 10 22 | 27 10 23 | 27 10 24 | 27 10 25 | 27 10 26 | 27 10 27 | 27 10 28 | 27 10 29 |
|-------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|
| GRACO PART NUMBER | H42525 | H42550 | H4251X | H43825 | H43850 | H4381X | H45025 | H45050 | H4501X |
| Length | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) |
| Hose Diameter | 6.4 mm (1/4") | | | 9.5 mm (3/8") | | | 12.7 mm (1/2") | | |
| Size ID | 1/4" Female NPSM | | | 3/8" Female NPSM | | | 1/2" Female NPSM | | |



> 386 BAR (38.6 MPA, 5600 PSI)

| IMPA REFERENCE | 27 10 31 | 27 10 32 | 27 10 33 | 27 10 34 | 27 10 35 | 27 10 36 | 27 10 37 | 27 10 38 | 27 10 39 |
|-------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|
| GRACO PART NUMBER | H52525 | H52550 | H5251X | H53825 | H53850 | H5381X | H55025 | H55050 | H5501X |
| Length | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) |
| Hose Diameter | 6.4 mm (1/4") | | | 9.5 mm (3/8") | | | 12.7 mm (1/2") | | |
| Size ID | 1/4" Female NPSM | | | 3/8" Female NPSM | | | 1/2" Female NPSM | | |



> 500 BAR (50 MPA, 7250 PSI)

| IMPA REFERENCE | 27 10 41 | 27 10 42 | 27 10 43 | 27 10 44 | 27 10 45 | 27 10 46 | 27 10 47 | 27 10 48 | 27 10 49 |
|-------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|
| GRACO PART NUMBER | H72525 | H72550 | H7251X | H73825 | H73850 | H7381X | H75025 | H75050 | H7501X |
| Length | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) | 7.6 m (25 ft) | 15.2 m (50 ft) | 30.5 m (100 ft) |
| Hose Diameter | 6.4 mm (1/4") | | | 9.5 mm (3/8") | | | 12.7 mm (1/2") | | |
| Size ID | 1/4" Female NPSM | | | 3/8" Female NPSM | | | 1/2" Female NPSM | | |

LIGHT-DUTY OIL & GREASE PUMPS

FAST-BALL

Use the Fast-Ball for onboard lower volume and short-run transfers of petroleum and synthetic based oils. These pumps are designed to provide a reliable fluid flow and ensure smooth pumping.

Advantages

- **Durable**
Rated for continuous duty in challenging applications
- **Less pump wear**
In-line design with fewer moving parts in the air motor assembly means less downtime and low repair costs
- **Flexible**
Use with both petroleum- and synthetic-based oils
- **Ready to use**
Convenient pump packages come with everything you need to get started immediately

Accessories

- 247431 Fast-Ball Repair Kit
- 222308 Bung adapter
- 222118 Connection hose kit (4.5 m - 14.76 ft)
- 222119 Connection hose kit (1.8 m - 5.9 ft)



| IMPA REFERENCE | 61 74 61 | 61 74 61 | 61 74 61 |
|----------------------------|--------------------------------------|--|---|
| GRACO PART NUMBER | 222051 | 222103 | 222104 |
| Graco Model | Fast-Ball Universal Oil Pump | Fast-Ball 200 litre Oil Pump Bung Mounted | Fast-Ball 1041 litre Oil Pump Bung Mounted |
| Pump Ratio | 1:1 | 1:1 | 1:1 |
| Max Fluid Output Pressure | 12.4 bar (1.24 MPa, 180 psi) | 12.4 bar (1.24 MPa, 180 psi) | 12.4 bar (1.24 MPa, 180 psi) |
| Fluid Flow at 80 cpm | 18-22.7 lpm | 18-22.7 lpm | 18-22.7 lpm |
| Air Use and Flow at 80 cpm | 0.20 m ³ /min at 11.7 lpm | 0.20 m ³ /min at 11.7 lpm | 0.20 m ³ /min at 11.7 lpm |
| Output per Cycle | 151 cc | 151 cc | 151 cc |
| Air Inlet | 1/4" NPT (F) | 1/4" NPT (F) | 1/4" NPT (F) |
| Fluid Inlet | 1 – 1/2" NPT (F) | 1 – 1/2" NPT (F) | 1 – 1/2" NPT (F) |
| Fluid Outlet | 3/4" NPT (F) | 3/4" NPT (F) | 3/4" NPT (F) |
| Weight | 3.6 kg (7.9 lb) | 5.9 kg (13 lb) | 6.4 kg (14.1 lb) |
| Manual | 307906 | 307906 | 307906 |

LIGHT-DUTY OIL & GREASE PUMPS

LD AIR-POWERED PUMPS

The affordable and full featured LD is designed for lower volume applications. These pumps are fine-tuned for a compact, flexible and still incredibly durable solution. When transferring oil or grease on board out of 20 to 200 litre drums, you should consider the LD as it offers field-proven performance for a solution that works as hard as you.

Advantages

- **Durable**
Patent-pending cup and plate design eliminates the need for O-rings for a more durable, longer-lasting solution
- **High performance**
Fast repairs, flexible configuration, industry leading five year warranty, and so many other field-proven features
- **Reliable**
Patent-pending self-cleaning design increases reliability in dirty air environments and minimizes pressure drop with rapid changeovers for reduced stalling and smoother flow
- **Ease of use**
Air inlet and exhaust locations are easy to configure with just four bolts for simple, hassle-free installations
- **Constant**
NXT Air Valve is designed to reduce icing in continuous use applications and uses less air than competitive pumps for better efficiency. Easy to repair or replace without tearing down internal pump components for less downtime

Accessories

- 24H798 Air Valve Repair Kit
- 24J757 Air Motor Service Kit (npt)
- 24J758 Air Motor Service Kit (bspp)
- 24J759 Air Motor Service Kit (bspt)



| IMPA REFERENCE | | | | | |
|--------------------------------|---|---|--|---|--|
| GRACO PART NUMBER | 24G582 | 24G594 | 24G606 | 24J030 | 25C549 |
| Graco Model | LD 3:1 Oil Pump, 200L Drum, Metallic tube | LD 5:1 Oil Pump, 200L Drum, Metallic tube | LD 50:1 Grease Pump, 180 kg (400 lb) | LD 50:1 Grease Pump 16 kg (35 lb), Stationary Package | LD 50:1 Grease Pump 16 kg (35 lb) Mobile Package |
| Maximum Fluid Working Pressure | 31 bar (3.10 MPa, 450 psi) | 51.7 bar (5.17 MPa, 750 psi) | 51.7 bar (5.17 MPa, 750 psi) | 35 bar (3.5 MPa, 5000 psi) | 51.7 bar (5.17 MPa, 750 psi) |
| Fluid Pressure Ratio | 3:1 | 5:1 | 50:1 | 50:1 | 50:1 |
| Air Operation Range | 1.37 to 10.3 bar (20 to 150 psi) | 1.37 to 10.3 bar (20 to 150 psi) | 1.37 to 10.3 bar (20 to 150 psi) | 1.37 to 10.3 bar (20 to 150 psi) | 1.37 to 10.3 bar (20 to 150 psi) |
| Max Recommended Pump Speed | 120 cycles per minute | 180 cycles per minute | 120 cycles per minute | 120 cycles per minute | 180 cycles per minute |
| Cycles Per Litre (Gallon) | 7 cycles per litre (29 cycles per gallon) | 10 cycles per litre (37 cycles per gallon) | 103 cycles per kg (47 cycles per pound) | 7 cycles per liter (29 cycles per gallon) | 10 cycles per liter (37 cycles per gallon) |
| Wetted Parts | Zinc Plated Carbon, Steel, Aluminium, Nitrile, Polyurethane, Nickel Plated Aluminium | | Steel, Brass, Nitrile Rubber, Polyurethane, UHMWPE, Acetal | Steel, Brass, Nitrile Rubber, Polyurethane, UHMWPE, Acetal | |
| Approximate Weight | 3.2 kg (7 lb) | 3.2 kg (7 lb) | 7.7 kg (17 lb) | 12.98 kg (28.61 lb) | 15.07 kg (33.22 lb) |
| Air Inlet | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| Fluid Inlet | 1" | 1" | Priming Piston | 1" | 1" |
| Fluid Outlet | 1/2" | 1/2" | 1/4" | 1" | 1" |
| Manual | 3A1334 | 3A1334 | 3A1334 | 3A1335 | 3A1335 |
| Repair Kit Manual | 3A1494 | 3A1494 | 3A1495 | 3A1495 | 3A1495 |

HEAVY-DUTY OIL & GREASE PUMPS

FIRE-BALL

When working in one of the most demanding environments, you need a pump you can rely on.

Graco's Fire-Ball pumps are designed for applications requiring continuous duty and are built to last.

With so many unique maintenance saving features, Fire-Ball pumps reduce downtime and save you money.

Whether you're pumping oil or grease for low, medium or high volume applications, trust Graco's Fire-Ball pumps to get the job done!

Advantages

- **Durable**
Non-corrosive air motor design for long life (metal parts made of stainless steel, aluminum and chrome)
- **High Performance**
No metal-to-metal contact means longer pump life and ensures pump will withstand harsh environments
- **Reliable**
Double-acting pump provides reliable fluid flow
- **Ease**
Few moving parts translates into low maintenance and low cost of ownership
- **Constant**
Open exhaust port provides continuous operation without icing

| IMPA REFERENCE | 61 74 64 | 61 74 65 | 61 74 66 |
|--|--|--|---|
| GRACO PART NUMBER | 246775 | 225931/225642 | 237526 |
| Graco Model | Mini Fire-Ball 225, Oil Pump, Universal Pump Only | Fire-Ball 300, Oil Pump, 200 litre Bung or Cover Mounted Package | Fire-Ball 425, Oil Pump, Universal Pump Only |
| Application | Low to medium volume | Medium volume | High volume |
| Pump Ratio | 3:1 | 5:1 | 3:1 |
| Max. Fluid Output Pressure | 37 bar (0.37 MPa, 540 psi) | 62 bar (0.62 MPa, 900 psi) | 37 bar (0.37 MPa, 540 psi) |
| Fluid Flow at 80 cpm | 7.0 lpm (1.84 gpm) | 9.3 lpm (2.8 gpm) | 50.6 lpm (13.4 gpm) |
| Cycles per Litre (gallon) | 11.4 cycles per litre (43.5 cycles per gallon) | 11.4 cycles per litre (43.5 cycles per gallon) | 11.4 cycles per litre (43.5 cycles per gallon) |
| Air Use and Flow at 7 bar (100 psi) and 80 cpm | 0.241 m ³ /min at 7.9 l/min (8.5 scfm at 2.1 gpm) | 0.765 m ³ /min at 11.5 l/min (27 scfm at 3 gpm) | 1.64 m ³ /min at 50.6 l/min (58 scfm at 13.4 gpm) |
| Wetted Materials | <ul style="list-style-type: none"> • Steel • Buna-N • Polyurethane • Aluminium • Rulon® | <ul style="list-style-type: none"> • Steel • Polyurethane • Aluminium • Buna-N | <ul style="list-style-type: none"> • Steel • Polyurethane • Aluminium • Nitrile |
| Air Inlet | 3/8" npt(f) | 3/8" npt(f) | 1/2" npt(f) |
| Fluid Inlet | 1-1/2" npt(f) | 1-1/2" npt(f) | 1-1/2" npt(f) |
| Fluid Outlet | 1/2" npt(f) | 1/2" npt(f) | 3/4" npt(f) |
| Line Length | Up to 76.2 m (250 ft) | Up to 152.5 m (500 ft) | Up to 76.2 m (250 ft) |
| Manual | 309868 | 306518 | 308485 |



| IMPA | 61 74 69 | 61 74 80 | 61 74 88 |
|---|---|---|---|
| GRACO PART NUMBER | 246909 | 239877/239888 | 205395 |
| Graco Model | Mini Fire-Ball 225, Grease Pump, 16 kg Drum-Pump Only | Fire-Ball 300, Grease Pump, 16/180 kg, Drum-Pump Only | Fire-Ball 425, Grease Pump, 180 kg, Drum-Pump Only |
| Application | Low to medium volume | Medium volume | High volume |
| Max. Fluid Output Pressure | 580 bar (58 MPa, 8400 psi) | 580 bar (58 MPa, 8400 psi) | 517 bar (51.7 MPa, 7500 psi) |
| Pump Ratio | 50:1 | 50:1 | 50:1 |
| Continuous-Duty Flow Rate kg/min. (lb/min.) | 0.15 kg/min (0.32 lb/min) | 0.54 kg/min (1.19 lb/min) | 1.5 kg/min (3.35 lb/min) |
| Air Use | 0.2 m ³ /min (7.3 scfm) at 18 kg/min (0.41 lb/min.) at 7 bar (100 psi) at 80 cpm | 0.645 m ³ /min (22.8 cfm) at 7 bar (100 psi) | 0.54m ³ /min (19 cfm) at 4.8 bar (70 psi) |
| Wetted Materials | <ul style="list-style-type: none"> • Steel • Urethane • Aluminium • Buna-N • Brass • Ethylene • Delrin | <ul style="list-style-type: none"> • CS • Delrin® • Buna-N • Polyurethane | <ul style="list-style-type: none"> • CS • Leather |
| Air Inlet | 3/8" npt(f) | 3/8" npt(f) | 1-1/2" npt(f) |
| Fluid Inlet | Slotted | Slotted | Slotted |
| Fluid Outlet | 1/4" npt(f) | 1/4" npt (f) | 3/8" in npt(f) |
| Line Length | Up to 30.5 m (100 ft) | Up to 76.2 m (250 ft) | Up to 76.2 m (250 ft) |
| Manual | 309966 | 308883 | 306674 |

HOSE REELS

Graco's family of heavy-duty hose reels are designed for different types of applications. We also engineer our retractable hose reels to handle common fluids: lubricating grease, petroleum- and synthetic-based oils, hydraulic fluids, transmission fluids, gear oils, air, water, windshield wash fluid and diesel exhaust fluids.

Ordering Information

Part Number Example: HPH55B

Graco's smart part system makes choosing and ordering easy.

The example shows a reel with the following specifications:

An SD Series hose reel for high-pressure applications with a 3/8" hose diameter, 15 m hose length, with a metallic blue single pedestal frame.

| PEDESTAL | REEL SERIES | OPERATING PRESSURE | HOSE DIAMETER | | HOSE LENGTH | COLOUR |
|---------------|-------------|--------------------|---------------|----------|------------------|--------------------------------|
| H = Hose Reel | R = LD | L = Low | SIZE 10 | 1 = 1/4" | 3 = 11 m (35 ft) | A = White |
| | P = SD | M = Medium | | 2 = 3/8" | 5 = 15 m (50 ft) | B = Metallic Blue |
| | S = XD | H = High | | 3 = 1/2" | 6 = 20 m (65 ft) | C = Red |
| | | | SIZE 20 | 4 = 1/4" | | D = Black |
| | | | | 5 = 3/8" | | E = Dark Blue |
| | | | | 6 = 1/2" | | B and D = shipped with no hose |
| | | | | | | F = Yellow |

Metallic Blue reels are standard.

Consult customer service for lead times for other colours.

| | Typical Application | Typical Fluid | Hose/Cord Length Options | Enclosed |
|---|---|---|--|----------|
| LD™ Series  | <ul style="list-style-type: none"> • Small maintenance shops • Tyre maintenance shops • Small fast lubes • Independent repair facilities • Industrial manufacturing facilities | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Air • Water • Grease • Anti-freeze • Windshield washer fluid | <ul style="list-style-type: none"> • 11 m (35 ft) • 14 m (45 ft) • 15 m (50 ft) | Yes |
| SD™ 10 / 20 Series  | <ul style="list-style-type: none"> • Car dealerships • Light-/medium-duty truck dealers • Fleet maintenance • Public works garages • Construction vehicle maintenance • Light-utility service trucks | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Air • Water • Grease • Anti-freeze • Windshield washer fluid | <ul style="list-style-type: none"> • 11 m (35 ft) • 15 m (50 ft) • 20 m (65 ft) | Optional |
| SD™ Series Cord Reels  | <ul style="list-style-type: none"> • Automotive dealerships • Fast lube centres • Service shops • Heavy-duty dealerships • Fleet services facilities • In-plant • Lube trucks • Mining | | <ul style="list-style-type: none"> • 11 m (35 ft) • 15 m (50 ft) • 29 m (95 ft) | Optional |
| XD™ 10 / 20 Series  | <ul style="list-style-type: none"> • Heavy-duty truck dealers • Fleet maintenance • Mining maintenance • Public works garage • Construction vehicle maintenance • Heavy-duty mobile service trucks • Mining • Lube trucks | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Air • Water • Grease • Anti-freeze • Windshield washer fluid | <ul style="list-style-type: none"> • 11 m (35 ft) • 15 m (50 ft) • 20 m (65 ft) | Optional |
| XD™ 30 Series  | <ul style="list-style-type: none"> • Heavy-duty truck dealers • Fleet maintenance • Mining maintenance • Public works garage • Construction vehicle maintenance • Heavy-duty mobile service trucks • Mining • Lube trucks | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Diesel fuel • Air • Water • Grease • Anti-freeze • Windshield washer fluid • Pressure wash • Waste oil evacuation • Diesel exhaust fluid (DEF) | <ul style="list-style-type: none"> • 11 m (35 ft) • 15 m (50 ft) • 20 m (65 ft) • 23 m (75 ft) | No |
| XD™ 40 / 50 Series  | <ul style="list-style-type: none"> • Heavy-duty truck dealers • Fleet maintenance • Mining maintenance • Public works garages • Construction vehicle maintenance • Heavy-duty mobile service trucks • Agriculture • Lube trucks | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Diesel fuel • Air • Water • Anti-freeze • Waste oil evacuation | <ul style="list-style-type: none"> • 11 m (35 ft) • 15 m (50 ft) • 23 m (75 ft) • 30 m (100 ft) | No |
| XD™ 60 / 70 / 80 Series  | <ul style="list-style-type: none"> • Heavy-duty truck dealers • Fleet maintenance • Mining maintenance • Public works garages • Construction vehicle maintenance • Heavy-duty mobile service trucks • Agriculture • Lube trucks | <ul style="list-style-type: none"> • Petroleum- and synthetic-based oils • Diesel fuel • Air • Water • Grease • Waste oil evacuation | <ul style="list-style-type: none"> • 15 m (50 ft) • 23 m (75 ft) • 30 m (100 ft) • 46 m (150 ft) | No |

Graco Headquarters around the World



► WORLDWIDE HEADQUARTERS

Graco Inc.
88-11th Avenue N.E.
Minneapolis, MN 55413
United States of America
Tel: +1 612 623 6000

► SOUTH AND CENTRAL AMERICA HEADQUARTERS

Graco Uruguay - Montevideo
GFEC Uruguay Free
Zone WTC Free Zone
Dr. Luis Bonavita 1294
Office 1504
Montevideo, Uruguay 11300
Tel: +598 2626 3111

► EMEA HEADQUARTERS

Graco Distribution BV
Industrieterrein Oude Bunders
Slakweidestraat 31
3630 Maasmechelen, Belgium
Tel: +32 89 770 700

► ASIA PACIFIC HEADQUARTERS

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

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

Graco is certified ISO 9001.



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

Fluid Handling Solutions ◀

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