



COOPER

FLUID SYSTEMS



GRACO OIL & GREASE PUMPS

GRACO OIL PUMPS

Air Operated Piston Pumps for Oil

- Non corrosive air motor design for longer life
- No metal to metal contact means longer pump life and ensures pump will withstand harsh environments
- Double acting pump provides reliable fluid flow
- Few moving parts translates into low maintenance and low cost to owner
- Open exhaust port provides continuous operation without icing
- Medium to low volume and pressure lubricant transfer - handles petroleum and synthetic based oils



Series K
10:1 Ratio Fire-Ball 425 Pump

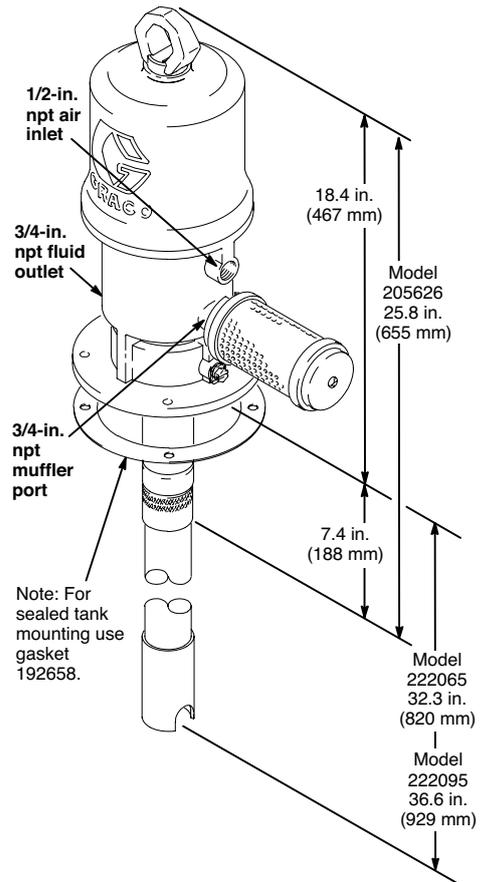
GRACO OIL PUMPS

10:1 Fire-Ball® 425 Pump

Models 205626, 222065, & 222095

Specifications

Maximum working pressure.....	1800 psi (124 bar)
Fluid pressure ratio.....	10:1
Air operating range.....	40 to 180 psi (2.8 to 12.4 bar)
Air consumption.....	approx 13 ft ³ /min per gallon pumped (6 m ³ /hour per litre pumped) at 100 psi (6.9 bar)
Pump cycles per gallon (litre).....	20 (5.3)
Maximum recommended continuous pump speed.....	60 cycles/min; 3 gpm (11.4 litre/min)
Recommended speed for optimum pump life.....	15 to 25 cycles per min
Sound data.....	78.0 dBA sound power at 100 psi air 40 cycles per minute
Piston seals.....	polyurethane with nitrile spreader
Rod seals.....	polyurethane with nitrile spreader
Wetted parts.....	aluminium, steel, polyurethane, nitrile
Weight (model 205626, universal pump).....	28.7 lb (13.0 kg)

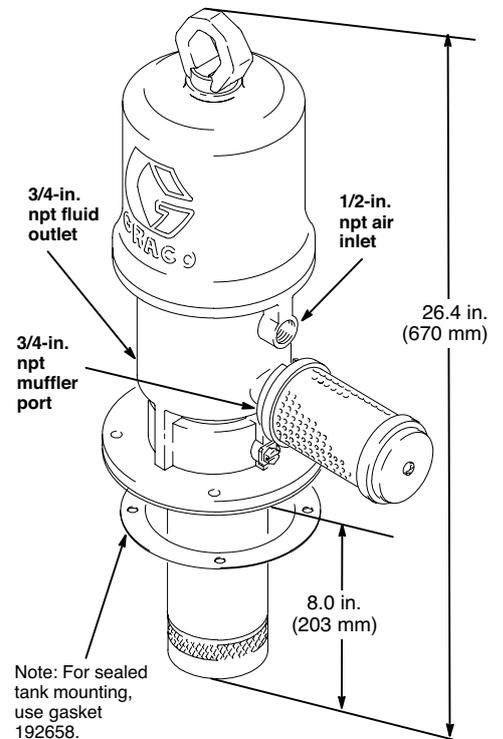


6:1 Fire-Ball® 425 Pump

Model 238108

Specifications

Maximum working pressure.....	1800 psi (76 bar, 7.6 MPa)
Fluid pressure ratio.....	6:1
Air operating range.....	40 to 180 psi (3 to 12 bar, 0.3 to 1.2 MPa)
Air consumption.....	7 ft ³ /min per gallon pumped, (0.051 m ³ /hour per litre pumped) at 100 psi (7 bar, 0.7 MPa)
Pump cycles per gallon (litre).....	14.5 (3.8)
Maximum recommended continuous pump speed.....	78 cycles/min; 6 gpm (23 litre/min)
Recommended speed for optimum pump life.....	15 to 25 cycles per min
Piston seals.....	polyurethane with nitrile spreader
Rod seals.....	polyurethane with nitrile spreader
Wetted parts.....	aluminium, steel, polyurethane, nitrile
Weight (model 205626, universal pump).....	35 lb (21 kg)
* Sound pressure level.....	79.5 dB(A)
*Sound pressure measured at 30 cycles per minute at 100 psi (7 bar, 0.7 MPa) air inlet pressure per ISO Standard 3744.	

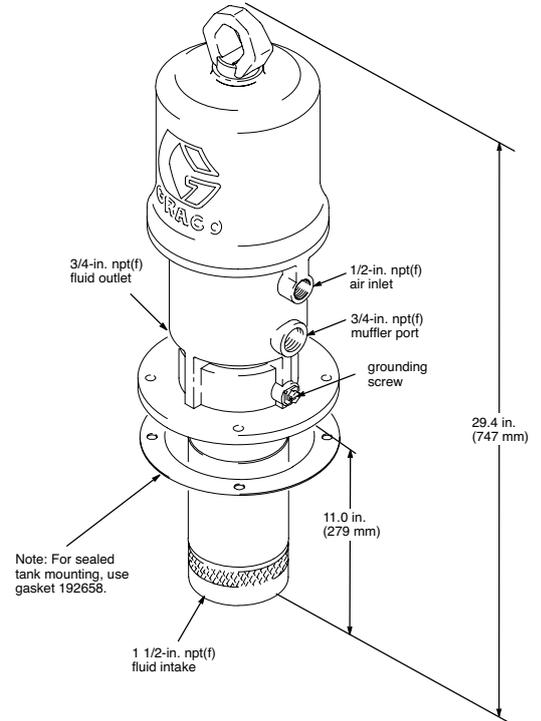


GRACO OIL PUMPS

3:1 Fire-Ball® 425 Pump Model 237526

Specifications

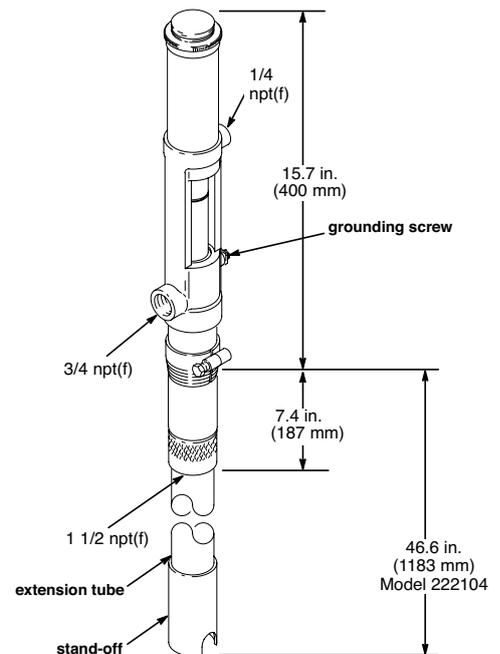
Maximum working pressure.....	540 psi (37 bar, 3.7 MPa)
Fluid pressure ratio.....	3:1
Air operating range.....	40 to 180 psi (2.8 to 12 bar, 0.28 to 1.2 MPa)
Air consumption.....	3 ft ³ /min per gallon pumped, (0.022 m ³ /hour per litre pumped) up to 8 ft ³ /min (0.058 m ³ /min) with pump operating within recommended range
Pump cycles per gallon (litre).....	6 (1.6)
Maximum recommended continuous pump speed.....	66 cycles/min; 12 gpm (45 litre/min)
Recommended speed for optimum pump life.....	15 to 25 cycles per min
Piston seals.....	polyurethane
Rod seals.....	polyurethane
Wetted parts.....	nitrile
Weight (model 205626, universal pump).....	46 lb (21 kg)
* Sound pressure level.....	82 dB(A)
*Sound pressure reading taken with pump operating at 60 cycles per minute at 100 psi (7 bar, 0.7 MPa). Sound pressure measured per CAGI-PNEUROP, 1971.	



1:1 Fast-Ball™ Pumps Model 222051

Specifications

Maximum working pressure.....	180 psi (12.4 bar, 1.2 MPa)
Fluid pressure ratio.....	1:1
Air operating range.....	40 to 180 psi (2.8 to 12.4 bar, 0.28 to 1.2 MPa)
Air consumption.....	approximately 1.5 cfm (0.042 m ³ /min) at 1 gpm (3.8 lpm) at 100 psi (0.7 MPa, 7 bar) air pressure
Sound data*	
Sound pressure level.....	74.9 dB(A)
Sound power level.....	83.5 dB(A)
Effective piston area.....	1.48 sq in. (9.55 sq cm)
Piston rod diameter.....	1.375 in. (34.9 mm)
Stroke length.....	4 in. (101 mm)
Wetted parts.....	carbon steel, aluminium, urethane, UHMWPE
Approximate weight (model 222051).....	8 lb (3.6 kg)
Maximum temperature.....	180°F (82°C)
*Sound measurements were taken at 100 psi air (7 bar, 0.7 MPa) inlet pressure at 40 cycles per minute per ISO Standard 3744.	



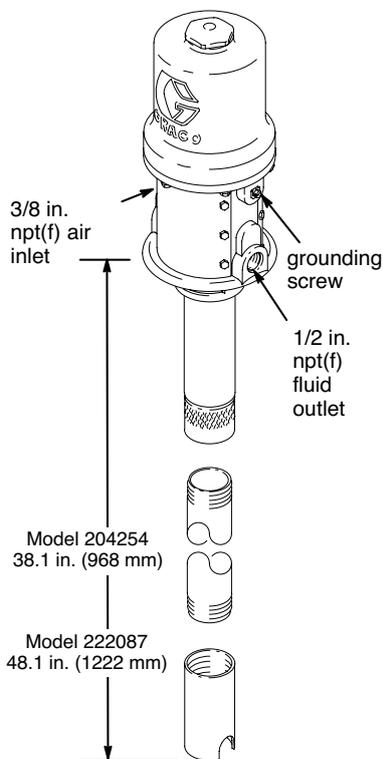
GRACO OIL PUMPS

5:1 Fire-Ball® 300 Pump

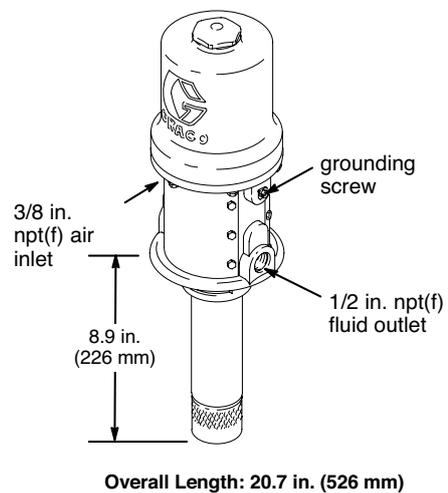
Models 203876, 222087 & 204254

Specifications

Maximum working pressure.....	900 psi (62 bar, 6.2 MPa)
Fluid pressure ratio.....	5:1
Air operating range.....	40 to 180 psi (2.8 to 12 bar, 0.28 to 1.2 MPa)
Air consumption.....	13 ft ³ /min for first gpm pumped (0.096 m ³ /min for first lpm pumped) at 100 psi (7 bar, 0.7 MPa) <i>up to 8 additional ft³/min for each additional gpm</i> <i>(0.096 m³/min for each additional lpm)</i> <i>with pump operated within recommended range</i>
Pump cycles per gallon (litre).....	30 (7.9)
Maximum recommended continuous pump speed.....	130 cycles/min 5 gpm (19 litre/min)
Recommended speed for optimum pump life.....	70 cycles per min
Wetted parts.....	steel, urethane, aluminium, buna-N
Approximate weight (model 203876).....	17 lb (7.7 kg)
Sound pressure level (measured at 1 metre from unit).....	79.5 dB(A) Sound
Sound power level (tested in accordance with ISO9614-2).....	85.6 dB(A)



Model 222087 & 204254, Series N



Model 203876, Series N

GRACO GREASE PUMPS

Air Operated Piston Pumps for Grease

- Noncorrosive air motor design for long life
- Double acting pump ensures smooth fluid flow
- Robust grease inlet cage withstands the most abusive handling
- Medium to high pressure, low to medium volume grease dispense – handles grease up to NLGI#2

Series A
Ratio 10:1

GRACO GREASE PUMPS

50:1 Fire-Ball® 425 Pumps

Models 205394 & 205395

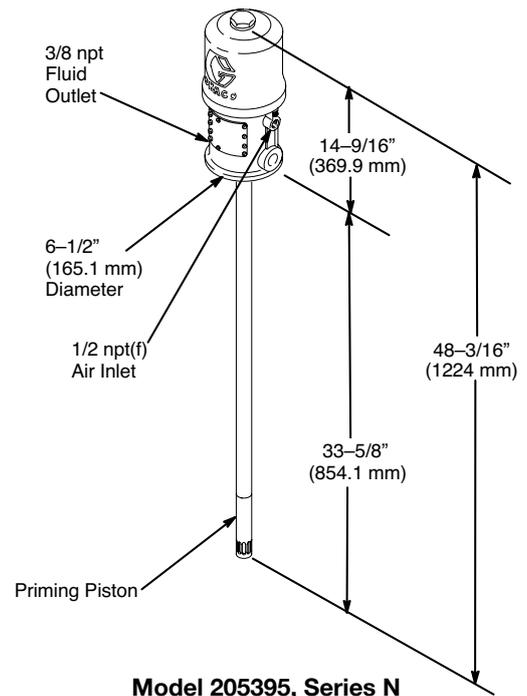
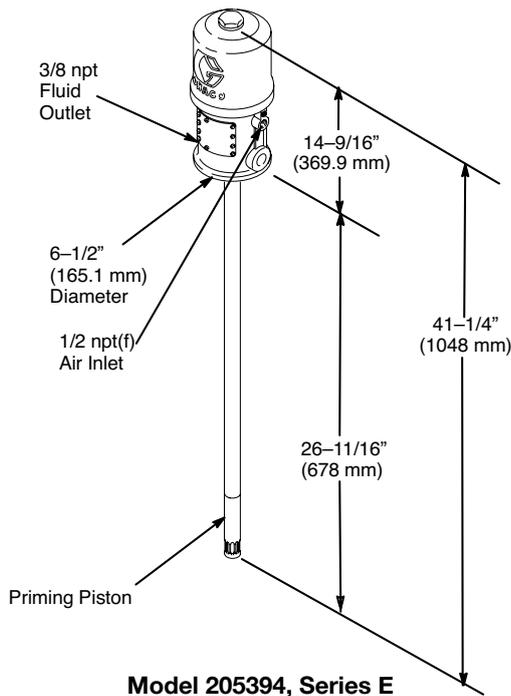
Specifications

Fluid pressure ratio.....	50:1
Air pressure operating range.....	40 to 150 psi (3 to 10 bar, 0.3 to 1.0 MPa)
Maximum working pressure.....	7500 psi (517 bar, 51.7 MPa)
Maximum delivery.....	0.5 gpm (1.9 lpm)
Cycles per gallon (per litre).....	110 (28)
Max. recommended pump speed.....	60 cycles per minute
Air motor effective diameter.....	4.25 in. (108mm)
Stroke length.....	4 in. (102 mm)
Air consumption.....	approx 19 cfm (0.53 m ³ /min)
	at 1 gpm (3.8 lpm) at 70 psi (0.48 MPa, 4.8 bar) air pressure
Wetted parts.....	steel, brass, aluminium, leather
Weight.....	model 205394; 34 lb (15 kg)
	model 205395; 37 lb (17 kg)

Sound data*

Sound pressure level measured at 1m from unit.....	80.85 dB(A)
Sound power level tested in accordance with ISO 9614-2.....	94.62 dB(A)

*Sound data measured with input air pressures at 15 cycles per minute at 100 psi (7 bar, 0.7 MPa).



GRACO GREASE PUMPS

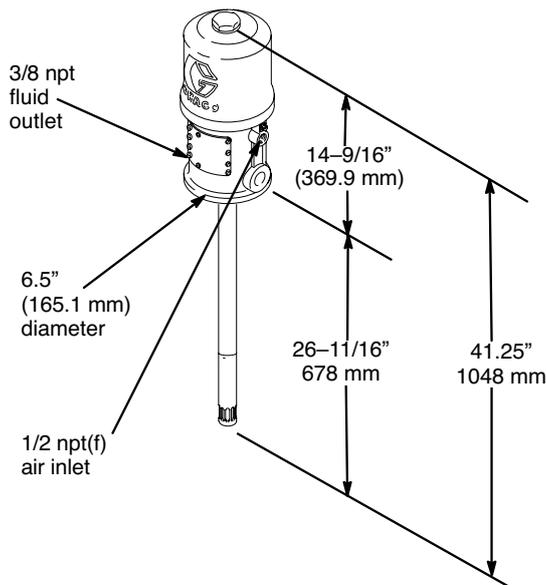
75:1 Fire-Ball[®] 425 Pumps

Models 239729 & 239730

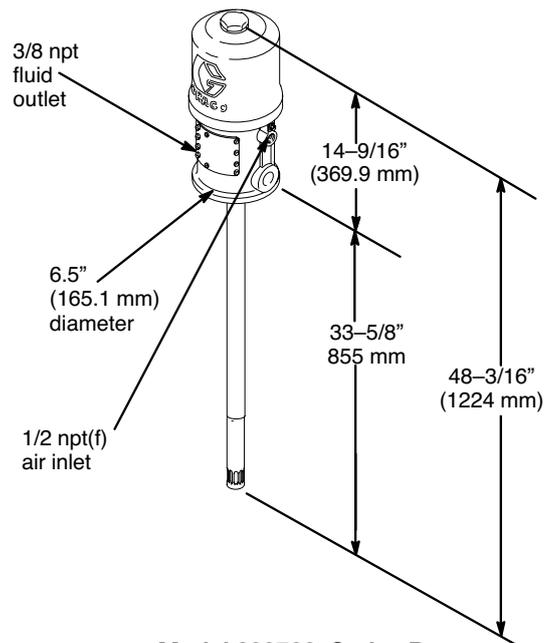
Specifications

Fluid pressure ratio.....	75:1
Air pressure operating range.....	40 to 100 psi (0.3 to 0.7 MPa, 2.8 to 7 bar)
Maximum working pressure.....	7500 psi (517 bar, 52 MPa)
Maximum delivery.....	0.33 gpm (1.3 lpm)
Cycles per gallon (litre).....	165 (42)
Max recommended pump speed.....	60 cycles/min
Air motor effective diameter.....	4.25 in. (108 mm)
Stroke.....	4 in. (102 mm)
Air consumption.....	approx 26 cfm (0.72 m ³ /min) at 1 gpm (3.8 lpm) at 70 psi (0.5 MPa, 4.8 bar)
Wetted parts.....	steel, brass, aluminium, leather
Weight	
Model 239729.....	34 lb (15 kg)
Model 239730.....	37 lb (17 kg)
Sound data*	
Sound pressure level measured at 1 m from unit.....	80.85 dB(A)
Sound power level tested in accordance with ISO 9614-2.....	94.62 dB(A)

*Sound data measured with input air pressures at 15 cycles per minute at 100 psi (7 bar, 0.7 MPa).



Model 239729, Series B



Model 239730, Series B

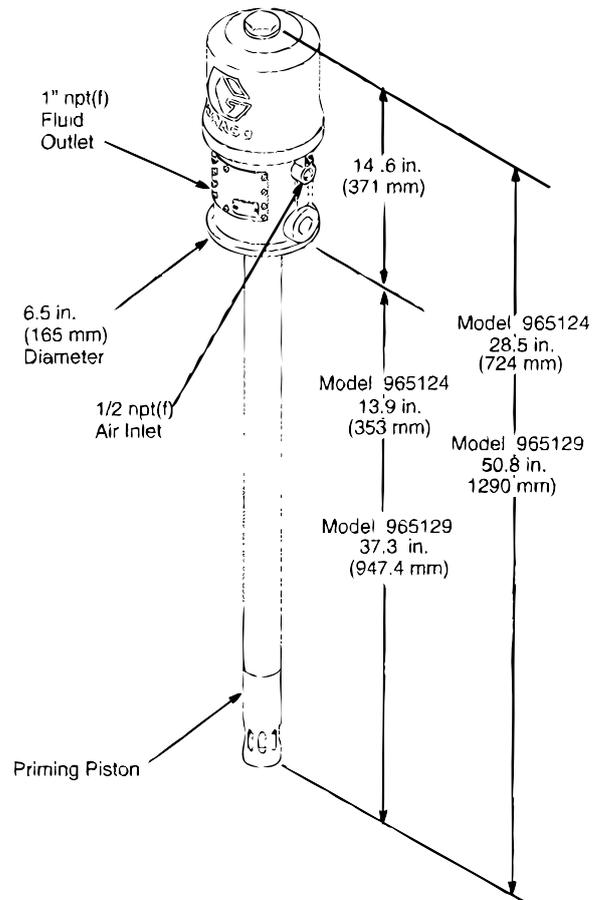
GRACO GREASE PUMPS

10:1 Fire-Ball® 425 Pumps

Models 965124 & 965129

Specifications

Fluid pressure ratio.....	10:1
Air pressure operating range.....	40-180 psi (3-12.4 bar, 0.3-1.2 MPa)
Maximum working pressure.....	1800 psi (124 bar, 12.4 MPa)
Maximum delivery.....	5.2 gpm (19.7 lpm)
Cycles per gallon (per litre).....	20 (6)
Max recommended pump speed.....	60 cycles per minute
Air motor effective diameter.....	4.25 in. (108 mm)
Stroke.....	4 in. (102 mm)
Air consumption.....	approx. 13 cfm per gallon (6 m ³ /hr/litre) of fluid at 100 psi (0.7 MPa, 7 bar)
Wetted parts.....	steel, brass, aluminium, leather, buna-N
Weight.....	38 lb (17 kg)



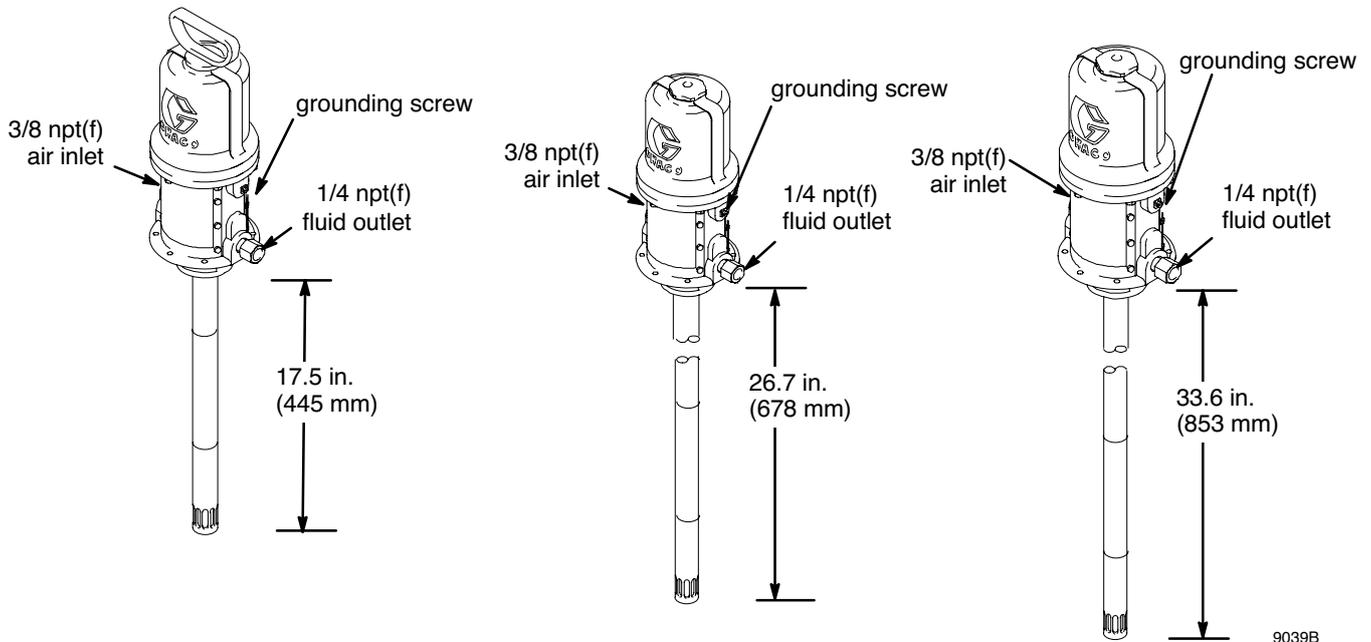
GRACO GREASE PUMPS

50:1 Fire-Ball® 300 Pumps

Models 239877, 239887 & 239888

Specifications

Maximum working pressure.....	8400 psi (580 bar, 58 MPa)
Fluid pressure ratio.....	50:1
Air operating range.....	30 to 140 psi (3 to 9.7 bar, 0.3 to 0.97 MPa)
Air consumption.....	22.8 cfm (0.638 m ³ /min) at 0.25 gpm (0.95 litre/min) at 100 psi (0.7 MPa, 7 bar)
Gallons (litres) per pump cycle.....	0.003 (0.0109)
Max recommended pump speed.....	76 cycles per minute at 0.22 gpm (0.82 litre/min)
Wetted parts.....	steel, brass, aluminium, acetal, nitrile rubber, polyurethane
Sound pressure level measured at 1m from unit.....	77.8 dB(A)
Sound power level tested in accordance with ISO 9614-2.....	85.6 dB(A)
Approx weight.....	22 lb (10 kg)



Model 239877, Series D
pail length

Model 239887, Series D
120 lb drum size

Model 239888, Series D
400 lb drum size

GRACO GREASE PUMPS

Graco NXT Technology – Discover the Next Generation of Power and Performance

- New NXT tested to outperform other pumps on the market, provides material tracking, system diagnostics and runaway control with DataTrak – the markets First integrated local monitoring system.
- Offers positive displacement, 2-ball and 4-ball piston design for uniform and easily controlled delivery.
- Designed for improved serviceability with fewer parts, faster repairs and lower cost of ownership.
- New NXT airmotor proven to last 10 times longer than its predecessors –Bulldog/Senator/King.
- Built to last the toughest finishing applications, de-icing feature, easy access to controls and reduces noise.



NEW NXT Air Motor

- Modular design for easier maintenance
- Rugged body armour won't rust or dent
- Highest technology air motor on the market
- Three exhaust styles available
 - Low noise
 - Remote
 - De-icing

Optional NEW DataTrak™ Control

- Runaway protection
- Pump diagnostics
- Material usage

NEW Modular Air Valve

- De-icing controls standard
- Up to 50% quieter than previous models
- Eliminates stalling
- Easy to repair

Optional NEW Integrated Air Controls

- Lockable easy-turn regulator
- Front-mounted for convenient access
- Compact and modular
- Built-in filtration



Built by Cooper Fluid Systems

PERTH OFFICE

PO Box 231, Cloverdale WA 6985
25 Redcliffe Road, Redcliffe WA 6104
Telephone (08) 6272 5333
Facsimile (08) 6272 5350
Email cfsperth@cfs.cgl.com.au

KALGOORLIE OFFICE

Unit 2, 35 Great Eastern Hwy, Kalgoorlie WA 6430
Telephone (08) 9021 4000
Facsimile (08) 9021 3999
Email cfskalgoorlie@cfs.cgl.com.au

ADELAIDE OFFICE

19 Richard Street, Hindmarsh SA 5007
Telephone (08) 8346 2705
Facsimile (08) 8346 7443
Email cfsadelaide@cfs.cgl.com.au

BRISBANE OFFICE

PO Box 257, Carole Park QLD 4300
152 Cobalt Street, Carole Park QLD 4300
Telephone (07) 3258 7222
Facsimile (07) 3258 7200
Email cfsbrisbane@cfs.cgl.com.au

TOOWOOMBA OFFICE

Lot 13 Tews Court, Toowoomba QLD 4350
Mobile 0417 930 591

MACKAY OFFICE

PO Box 691, Mackay QLD 4740
8 Michelmore Street, Paget QLD 4740
Telephone (07) 4952 4844
Facsimile (07) 4952 4011
Email cfsmackay@cfs.cgl.com.au

GLADSTONE OFFICE

Unit 7A 2 Dennis Street, Boyne Island
Mobile Workshop 0400 203 400
Mobile Sales 0410 220 919

TOWNSVILLE OFFICE

PO Box 8020 GBC, Garbutt QLD 4814
38 Toll Street, Bohle QLD 4818
Telephone (07) 4774 3455
Facsimile (07) 4774 4902
Email cfstownsville@cfs.cgl.com.au

www.cooperfluidsystems.com.au

AUSTRALIA'S HYDRAULIC AND LUBRICATION SPECIALISTS

A Division of Coventry Group Ltd ABN 37 008 670 102



COOPER
FLUID SYSTEMS

Ph 1300 026 673
for your nearest location