



FDA-Compliant

Air Operated Double Diaphragm Pumps

- Ideal for food-related applications requiring maximum portability
- Three models with flow rates ranging from 40 to 150 gpm
- All fluid contact materials are FDA-Compliant and meet the United States Code of Federal Regulations (CFR) Title 21
- Easy to clean with its quick knock down design
- Featuring Graco's durable, lube-free, non-sticking air valve
- Leak detector available
- CIP capable depending on application and sanitizing process



PUMP

**the
volume**

For more information visit www.graco.com/sanitary
or call **877-844-7226**

Technical Specifications

	1040 FDA	1590 FDA	2150 FDA
Maximum fluid working pressure	120 psi (8 bar, 0.8 MPa)	120 psi (0.8 MPa, 8 bar)	120 psi (0.8 MPa, 8 bar)
Air pressure operating range	20-120 psi (1.4-8 bar, 0.14-0.8 MPa)	20-120 psi (0.14-0.8 MPa, 1.4-8 bar)	20-120 psi (0.14-0.8 MPa, 1.4-8 bar)
Maximum air consumption	50 scfm	130 scfm	175 scfm
Air consumption at 70 psi/20 gpm	18 scfm	42 scfm	70 scfm
Maximum free-flow delivery	40 gpm (151 lpm)	90 gpm (341 lpm)	150 gpm (568 lpm)
Gallons (Liters) per cycle	0.16 (0.57)*	0.5 (1.9)*	0.97 (3.67)*
Maximum suction lift	29 ft (8.83 m) wet, 16 ft (4.87 m) dry	29 ft (8.84 m) wet, 14 ft (4.27) dry	29 ft (8.83 m) wet, 16 ft (4.87 m) dry
Maximum size pumpable solids	1/8 in (3.2 mm)	3/16 in (4.8 mm)	1/4 in (6.3 mm)
Air inlet size	0.5 in npt(f)	0.5 in npt(f)	0.5 in npt(f)
Fluid inlet/outlet size	1.5 in sanitary flange	2 in sanitary flange	2.5 in sanitary flange
Weight - All models	55 lb (24.9 kg)	89 lb (40 kg)	147 lb (66.7 kg)
Instruction manual	311879	311879	311879
Maximum fluid operating temperature is based on the following maximum diaphragm, ball, and seat temperature ratings			
Stainless steel	250°F (121.1°C)	250°F (121.1°C)	250°F (121.1°C)
PTFE	220°F (104.4°C)	220°F (104.4°C)	220°F (104.4°C)
Santoprene®	180°F (82.2°C)	180°F (82.2°C)	180°F (82.2°C)
EPDM	275°F (135°C)	275°F (135°C)	275°F (135°C)
Neoprene	200°F (93.3°C)	200°F (93.3°C)	200°F (93.3°C)

*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type

Ordering Information

Part Number	Kits	Seats/ O-rings	Balls	Diaphragms
1040 FDA, 1.5 inch Sanitary Fluid Connections				
FD1111	FK1111	SST/PTFE	PTFE	PTFE
FD1122	FK1122	SST/PTFE	Santoprene	Santoprene
FD1211	FK1211	SST/EPDM	PTFE	PTFE
FD1222	FK1222	SST/EPDM	Santoprene	Santoprene
FD1113	FK1113	SST/PTFE	PTFE	Overmolded PTFE
FD1213	FK1213	SST/EPDM	PTFE	Overmolded PTFE
FD1132	FK1132	SST/PTFE	Polychloroprene	Santoprene
FD1232	FK1232	SST/EPDM	Polychloroprene	Santoprene
1590 FDA, 2 inch Sanitary Fluid Connections				
FD2111	FK2111	SST/PTFE	PTFE	PTFE
FD2122	FK2122	SST/PTFE	Santoprene	Santoprene
FD2211	FK2211	SST/EPDM	PTFE	PTFE
FD2222	FK2222	SST/EPDM	Santoprene	Santoprene

Part Number	Kits	Seats/ O-rings	Balls	Diaphragms
1590 FDA, 2 inch Sanitary Fluid Connections (con't)				
FD2113	FK2113	SST/PTFE	PTFE	Overmolded PTFE
FD2213	FK1213	SST/EPDM	PTFE	Overmolded PTFE
FD2132	FK2132	SST/PTFE	Polychloroprene	Santoprene
FD2232	FK2232	SST/EPDM	Polychloroprene	Santoprene
2150 FDA, 2.5 inch Sanitary Fluid Connections				
FD3111	FK3111	SST/PTFE	PTFE	PTFE
FD3122	FK3122	SST/PTFE	Santoprene	Santoprene
FD3211	FK3211	SST/EPDM	PTFE	PTFE
FD3222	FK3222	SST/EPDM	Santoprene	Santoprene
FD3113	FK3113	SST/PTFE	PTFE	Overmolded PTFE
FD3213	FK3213	SST/EPDM	PTFE	Overmolded PTFE
FD3132	FK3132	SST/PTFE	Polychloroprene	Santoprene
FD3232	FK3232	SST/EPDM	Polychloroprene	Santoprene

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.

Call today for product information or to request a demonstration.
877.84GRACO (1-877-844-7226) or visit us at www.graco.com.

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