



# PUMP **Up** *the volume*

**With Graco's NEW 1590 & 3150 Pumps!**



- Graco 3-inch pumps are certified by 3-A for dairy and milk applications
- Models have flow rates ranging from 90 gpm to 150 gpm
- Easy to clean with its quick knock down, 185° rotating design
- Featuring Graco's durable, lube-free, non-sticking air valve

So, pump up the productivity in your plant!  
Visit [www.graco.com/sanitary](http://www.graco.com/sanitary) to check out our full line of sanitary pumps, and find out how you can try Graco's most popular sanitary pumps FREE for 60 days!



**For more information visit our web site at [www.graco.com/sanitary](http://www.graco.com/sanitary) or call us at:**

**1-877-844-7226 (Press 3)**



## 3150 TECHNICAL SPECIFICATIONS

Maximum fluid working pressure ..... 120 psi (8.4 bar, 0.84 MPa)  
 Maximum free flow delivery\* ..... 150 gpm (568 lpm)  
 Maximum suction lift  
     Ball ..... 18 ft (5.5 m) wet, 9 ft (2.7 m) dry  
     Flapper ..... 10 ft (3.0 m) wet, 5 ft (1.5 m) dry  
 Maximum size of pumpable solids  
     Ball ..... 1 in (25.4 mm)  
     Flapper ..... 2.5 in (63.5 mm)  
 Maximum diaphragm operating temperature  
     Santoprene ..... 180°F (82.2°C)  
     Buna-N ..... 180°F (82.2°C)  
     Viton ..... 250°F (121°C)  
     EPDM ..... 275°F (435°C)  
 Typical sound level at 70 psi air (4.9 bar) air @ 50 cpm ..... 85 dBA  
 Air pressure operating range ..... 20 to 120 psi  
     (1.4 to 8.4 bar, 0.14 to 0.84 MPa)  
 Air inlet size ..... 1/2 npt(f)  
 Fluid inlet & outlet size (*determined by part number*) ..... tri-clamp connections  
 Weight ..... 145 lb  
 Instruction manual ..... 310622

\* Flow rates are with muffler and do not vary based on diaphragm material. Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type.

## 3150 HIGH SANITATION PUMPS

### 3A PUMP WITH LEAK DETECTOR

Part No.	Type	Inlet/ Outlet Size	Diaphragm/Ball Material
SA1AAA	3A Approved	1.5 in x 1.5 in	Over molded EPDM/PTFE
SA2AAA	3A Approved	2 in x 2 in	Over molded EPDM/PTFE
SA3AAA	3A Approved	3 in x 3 in	Over molded EPDM/PTFE
SA4AAA	3A Approved	4 in x 4 in	Over molded EPDM/PTFE
SA5AAA	3A Approved	3 in x 2 in	Over molded EPDM/PTFE

### SANITARY BALL PUMP (SB)

Part No.	Type	Inlet/ Outlet Size	Diaphragm/Ball Material
SB2AA1	Ball Check	2 in x 2 in	Over-molded EPDM/PTFE
SB3AA1	Ball Check	2 in x 2 in	Over-molded EPDM/PTFE
SB2661	Ball Check	2 in x 2 in	Santoprene/Santoprene
SB3661	Ball Check	3 in x 3 in	Santoprene/Santoprene
SB2771	Ball Check	2 in x 2 in	Buna-N/Buna-N
SB3771	Ball Check	3 in x 3 in	Buna-N/Buna-N
SB2881	Ball Check	2 in x 2 in	Fluoroelastomer/Fluoroelastomer
SB3881	Ball Check	3 in x 3 in	Fluoroelastomer/Fluoroelastomer

### SANITARY FLAPPER PUMP (SF)

Part No.	Type	Inlet/ Outlet Size	Diaphragm Material
SF3AF1	Flapper	4 in x 4 in	Overmolded
SF4AF1	Flapper	4 in x 4 in	Overmolded
SF36F1	Flapper	3 in x 3 in	Santoprene
SF46F1	Flapper	4 in x 4 in	Santoprene
SF37F1	Flapper	3 in x 3 in	Buna-N
SF47F1	Flapper	4 in x 4 in	Buna-N
SF38F1	Flapper	3 in x 3 in	Fluoroelastomer
SF48F1	Flapper	4 in x 4 in	Fluoroelastomer

## 3150 PUMP ACCESSORIES

15D989	Conversion kit: ball to flapper, includes four flapper assemblies
15H461	Conversion kit 3A: flapper to ball, includes four housing retainers, balls need to be ordered separately
15E285	Conversion kit: flapper to ball, includes four housing retainers, balls need to be ordered separately
112361	Santoprene Ball (order quantity 4)
15B492	Buna-N Ball (order quantity 4)
112359	PTFE Ball (order quantity 4)
15B491	Fluoroelastomer Ball (order quantity 4)
253225	Santoprene Diaphragm kit
253223	Buna-N Diaphragm kit
253222	Fluoroelastomer Diaphragm kit
253224	Over molded EPDM diaphragm kit
15D990	Leak Detector Kit

## 1590 TECHNICAL SPECIFICATIONS

Maximum fluid working pressure ..... 120 psi (08 MPa, 8 bar)  
 Maximum free-flow delivery ..... 90 gpm ( 570 l/min)  
 Maximum suction lift ..... 28 ft (8.5 m) wet, 15 ft (4.57 m) dry  
 Maximum size pumpable solids ..... 5/8 in (15.9 mm)  
 Air pressure operating range ..... 20-120 psi (014-08 MPa, 14-8 bar)  
 Maximum air consumption ..... 125 scfm  
 Air consumption at 70 psi air inlet pressure/60 gpm ..50 scfm (see chart)  
 Maximum pump speed ..... 200 cpm  
 \* Gallons (Liters) per cycle ..... 0.5 (1.96)  
 \*\* Maximum Noise Level at 100 psi, full flow ..... 90 dBA  
 \*\* Sound Power Level ..... 103 dBA  
 \*\* Noise Level at 70 psi and 50 cpm ..... 85 dBA

Maximum fluid operating temperature is based on the following maximum diaphragm, ball, and seat temperature ratings.

PTFE	..... 220°F (1044°C)
Santoprene®	..... 180°F (822°C)
3A Approved EPDM	..... 275°F (135°C)
Air inlet size	..... 0.5 in npt(f)
Weight	..... 97 lb (44 kg)
Instruction manual	..... 310622

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

\*\*Noise levels measured with the pump mounted on the stand. Sound power measured per ISO Standard 9614-1

## 1590 HIGH SANITATION PUMPS

Part Number	Type	Inlet	Diaphragm
SABAAA	Ball	2 in x 2 in	Overmolded EPDM
SBBA00	Ball	2 in x 2 in	Overmolded EPDM
SBBA11	Ball	2 in x 2 in	PTFE
SBBA22	Ball	2 in x 2 in	Santoprene

## 1590 KITS AND ACCESSORIES

255122	Air Valve Repair Kit 3A
255058	Overmolded EPDM Diaphragm Kit
255059	Santoprene Diaphragm Kit
255060	PTFE Diaphragm Kit
15D990	Leak Detector
112421	Santoprene Ball (quantity: 1)
112419	PTFE Ball (quantity: 1)