



HUSKY™ SANITARY SERIES

Quick Knock Down Diaphragm Pumps



Husky 3150 3A



Husky 3150 SF (Sanitary Flapper)



Husky 3150 SB (Sanitary Ball)

Produce up to 150 gpm with a 3A-certified and/or compliant air-operated double diaphragm pump from Graco!

FEATURES AND BENEFITS

- Ball (1") and flapper (2.5") pass large solids/chunks with ease without damaging product or clogging pump
- Available in two designs, ball (3150 3A or SB) and flapper (3150 SF) and easily converted from one to the other with optional kit
- Stainless steel fluid ends, meet or exceed a 32 Ra finish and can be disassembled in 5 minutes or less
- 316 Stainless steel center section and air valve offer lube-free operation
- Santoprene®, Buna-N, Viton® and PTFE food-grade elastomers
- Husky 3150 3A or SB are available with 1.5", 2", 3" and 4" tri-clamp connections
- Husky 3150 SF comes standard with 3" and 4" tri-clamp connections
- All models are available as stand-mounted or in 55-gallon or 300-gallon unloader packages
- Electronic leak detector is standard on the 3150 3A model and is optional on the SB or SF models
- All models covered by Graco's 5/15 year warranty

PROCESS

PROVEN QUALITY. LEADING TECHNOLOGY.

Husky 3150 3A Pump

With the highest flow capacity of any air-operated double diaphragm pump certified by 3A, the Husky 3150 3A is designed to meet the stringent sanitation requirements of the milk/dairy industry. It offers flow rates up to 150 gpm (567.8 lpm) and passes 1 in (25 mm) solids.

Mounted on a floor stand and equipped with a leak detector, the 3150 3A can be rotated 185 degrees to drain any excess sanitation chemicals used in the CIP process.

Typical Fluids Handled

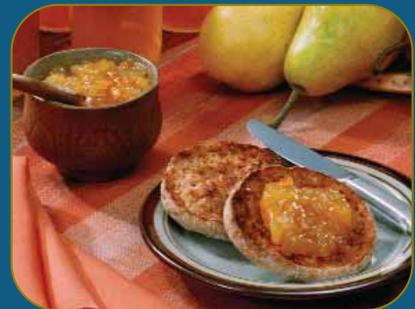
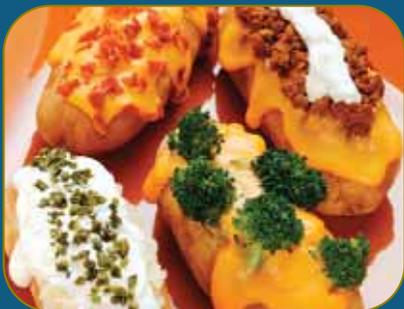
- Sour cream
- Ice cream
- Milk
- Yogurt
- Light-viscosity cheeses
- Pharmaceutical lotions



LEAK DETECTOR

Designed to detect leaks caused when a diaphragm fails, it sounds a built-in audio alarm and signals external shut down of the pump to prevent damage.

Mounted in air covers, the leak detector uses both an optical and conductivity sensor to ensure the utmost reliability. Powered by either 24v or 110/220v.



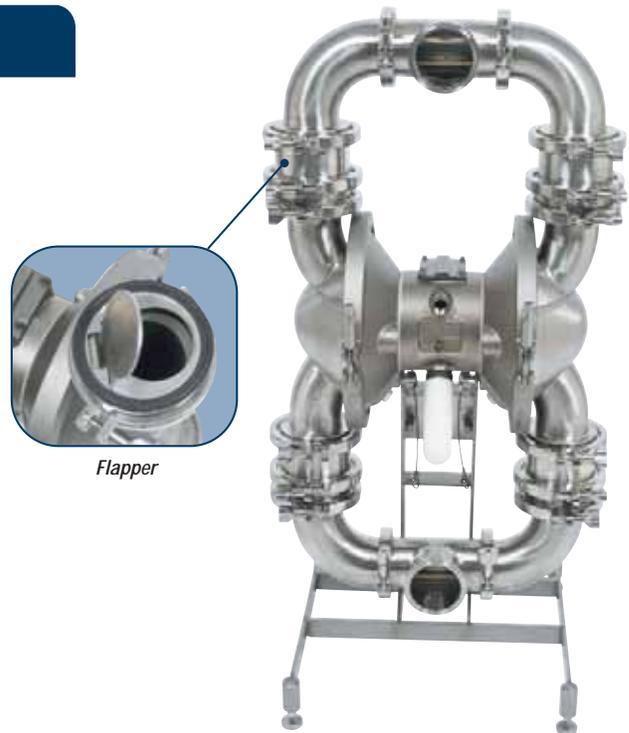
Husky 3150 SF Pumps

For materials and fluid streams containing large solids or chunks, which clog a ball-designed pump or are damaged by the pumping action.

The Husky 3150 SF easily pumps larger solids and will pass up to 2.5 in (63.5 mm) solid without crushing or damaging the product.

Typical Fluids Handled

- Apple or cherry pie filling
- Spaghetti sauce with meat
- Blueberry muffin batter
- Grapes with and without stems
- Raspberries
- Potato salad
- Pickle relish
- Chunky salsa



Flapper

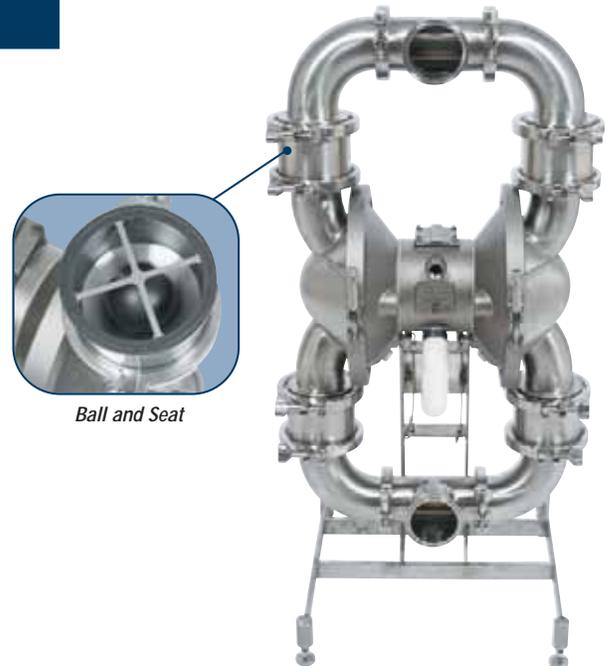
Husky 3150 SB Pumps

For applications that benefit from the convenience of quick knock down design, but may not require leak detection.

The 3150 SB ball design passes solids up to 1 in (25 mm) in diameter. The ease of disassembly of the fluid ends, large porting, and high flow capacity, makes the Husky 3150 SB the perfect pump for your high volume application needs.

Typical Fluids Handled

- Fruit juice
- Jams and jellies
- Corn syrup
- Tomato sauces
- Flowable cheese spreads
- Pizza sauces
- Tomato paste
- Icing
- Salsa
- Fruit purees

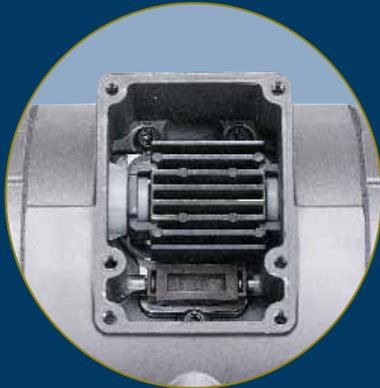


Ball and Seat



The Simplicity of the Husky Air Valve

Our Husky Air-Operated Double Diaphragm Pumps feature extremely reliable, externally serviceable air valves that make the Husky Sanitary Series pumps among the best in the industry.



top view of air valve

FEATURES AND BENEFITS

- Fewer moving parts means increased durability and less repair time
- Three-way pilot valve for true non-sticking operation
- Externally serviceable for quick, inexpensive repairs
- The elimination of o-rings and a spool valve prevents centering; a common problem with competitive pumps
- Lube-free operation for cleaner operation – essential when handling food products

Husky Features and Benefits

A EASY MAINTENANCE

- Low internal volume reduces waste and makes clean-up easy

B UNIQUE, PATENTED AIR VALVE

- Three-way pilot valve for no-stick operation
- All parts are replaceable without opening wet body parts
- No air-line lubrication required

C PRECISION-FITTED PARTS

- Long-wearing end bearings assure positive rod alignment and are easy to replace

D PROTECTIVE EXHAUST PORT

- Common port for all exhaust prevents vapors in room from attacking air motor seals

E RUGGED EXTERIOR CONSTRUCTION

- 316 SST construction resists corrosion, prevents leakage and ensures clean fluid changes

F POSITIVE SEAL DESIGN

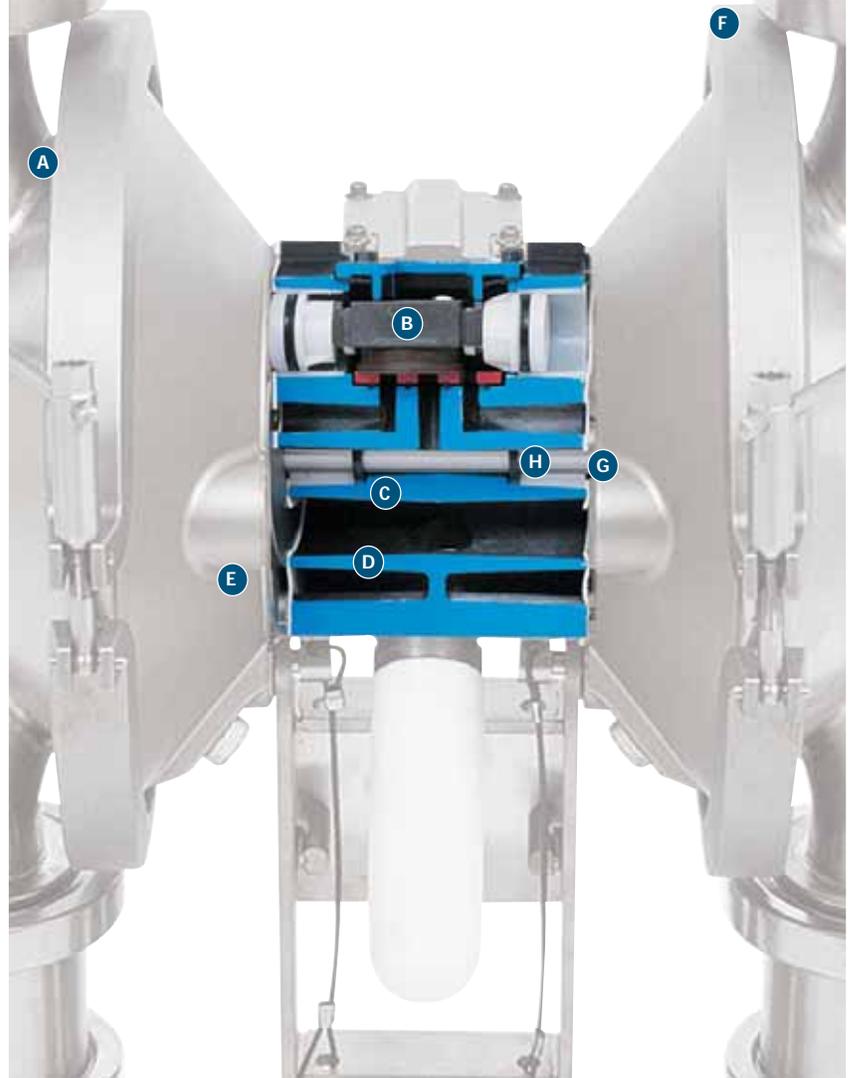
- Diaphragm firmly locked in place with clamp
- Formed bead acts as a positive fluid seal

G HEAVY DUTY DIAPHRAGM PLATES

- Positive grip plates virtually eliminate leakage and pull-out, preventing costly downtime

H LONG LASTING ROD DESIGN

- 300 Series stainless steel rod designed for long life and corrosion resistance—even in wet air



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	
Flapper	10 ft (3.5 m) wet
Ball	18 ft (5.5 m) wet
Maximum size of pumpable solids	
Husky 3150 3A	1 in (25.4 mm)
Husky 3150 SB	1 in (25.4 mm)
Husky 3150 SF	2.5 in (63.5 mm)
Maximum diaphragm operating temperature	
PTFE	220°F (104.4°C)
Santoprene	180°F (82.2°C)
Buna-N	180°F (82.2°C)
Viton	250°F (121°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	tri-clamp connections (size determined by part number)
Weight	
Husky 3150 3A	145 lb
Husky 3150 SB	145 lb
Husky 3150 SF	145 lb
Instruction manual	309505

* 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.

Accessories

Pump Conversion Kits

15D989	Converts ball to flapper, includes four flapper assemblies
15E285	Converts flapper to ball, includes four housing retainers, balls need to be ordered separately
DOF010	PTFE Ball Kit
DOF060	Santoprene Ball Kit
DOF070	Buna-N Ball Kit
DOF080	Viton Ball Kit

Pump Inlet/Outlet Tees

234532	3" x 3"
234534	3" x 2"
234535	3" x 4"
234536	3" x 1.5"

Leak Detector

15D990	Leak Detector Kit
--------	-------------------

Ordering Information

Husky 3150 3A**

Part No.	Type	Inlet/ Outlet Size	Diaphragm/ Ball Material
SA1AAA	3A Approved	1.5" x 1.5"	Over molded Buna-N
SA2AAA	3A Approved	2" x 2"	Over molded Buna-N
SA3AAA	3A Approved	3" x 3"	Over molded Buna-N
SA4AAA	3A Approved	4" x 4"	Over molded Buna-N
SA5AAA	3A Approved	3" x 2"	Over molded Buna-N

**Leak Detector comes standard on all 3150 3A models

Husky 3150 SB

Part No.	Type	Inlet/ Outlet Size	Diaphragm/ Ball Material
SB2AA1	Ball Check	2" x 2"	Over-molded Buna-N
SB3AA1	Ball Check	2" x 2"	Over-molded Buna-N
SB2111	Ball Check	2" x 2"	PTFE
SB3111	Ball Check	3" x 3"	PTFE
SB2661	Ball Check	2" x 2"	Santoprene
SB3661	Ball Check	3" x 3"	Santoprene
SB2771	Ball Check	2" x 2"	Buna-N
SB3771	Ball Check	3" x 3"	Buna-N
SB2881	Ball Check	2" x 2"	Viton
SB3881	Ball Check	3" x 3"	Viton

Husky 3150 SF

Part No.	Type	Inlet/ Outlet Size	Diaphragm/ Ball Material
SF31F1	Flapper	3" x 3"	PTFE
SF41F1	Flapper	4" x 4"	PTFE
SF36F1	Flapper	3" x 3"	Santoprene
SF46F1	Flapper	4" x 4"	Santoprene
SF37F1	Flapper	3" x 3"	Buna-N
SF47F1	Flapper	4" x 4"	Buna-N
SF38F1	Flapper	3" x 3"	Viton
SF48F1	Flapper	4" x 4"	Viton

Husky 3150 Drum Unloader

The Husky 3150 Drum Unloader evacuates barely flowable products from their original 55-gallon containers without diluting the material.

Unloader packages come standard with an inflatable ram plate seal, which minimizes seal leakage and allows quick replacement of the empty container. The available packages will empty 21.5", and 23" fiber, 22.5" metal, and 23.25" plastic tapered drums. With flow rates up to 100 gpm, extremely fast evacuation rates are possible.

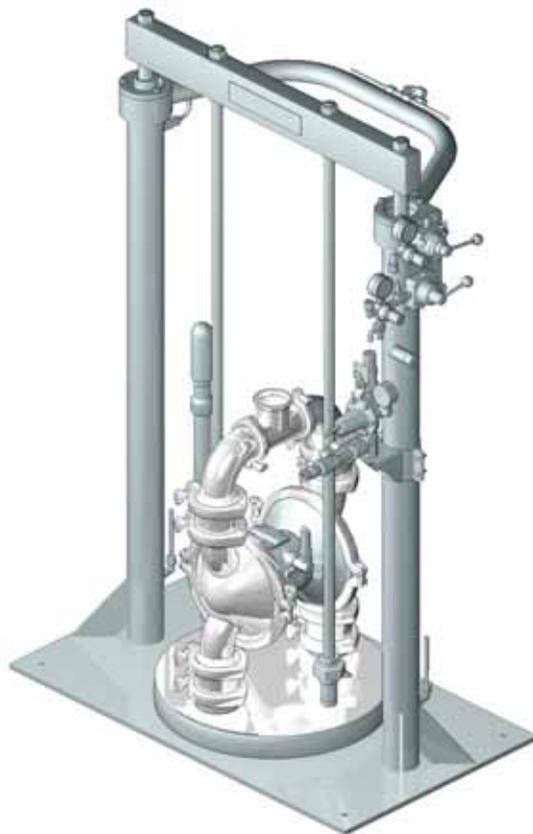
Typical Fluids Handled

- Tomato paste
- Light peanut butter
- Heavier ointments
- Icing
- Frostings

Technical Specifications

Maximum fluid pressure 120 psi (8.4 bar, 0.84 MPa)
Maximum flow @ 60 cpm* 60 gpm (234 lpm)
Maximum flow @ 100 cpm* 100 gpm (390 lpm)
Viscosity range of package 10,000 to 20,000 cps
Maximum inlet air pressure 120 psi (8.4, 0.84 MPa)
Air inlet size 3/4 npt(f)
Evacuation efficiency 99%
Instruction manual 309505

* Flow rates based on full displacement of lower and S.G.=1



Ordering Information

Part No.	Type	Plate Size	Outlet Size	Diaphragm/ Ball Material
248275	Ball	21 1/2" (546 mm)	3" (76 mm)	PTFE
248277	Ball	22 1/2" (572 mm)	3" (76 mm)	PTFE
248276	Flapper	21 1/2" (546 mm)	3" (76 mm)	PTFE
248278	Flapper	22 1/2" (572 mm)	3" (76 mm)	PTFE

Husky 3150 BES

The Husky 3150 BES (Bin Evacuation System) evacuates barely flowable products from their original 300-gallon containers without diluting the material.

Standard with an inflatable ram plate seal, the 3150 BES minimizes seal leakage and allows quick replacement of the empty container. An all-pneumatic version is available for applications that do not require metering or batch control and an electronic version is available for those applications that do.

Equipped with two pumps and flow rates up to 100 gpm each, bin evacuation times of less than three minutes are possible.

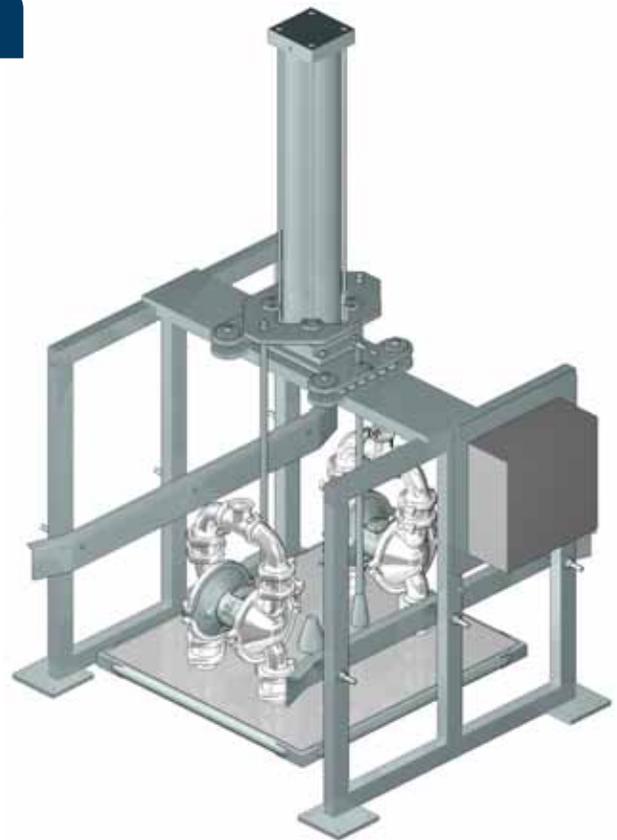
Typical Fluids Handled

- Tomato paste
- Light peanut butter
- Heavier ointments
- Icing and frostings

Technical Specifications

Maximum fluid pressure 120 psi (8.4 bar, 0.8 MPa)
Maximum flow @ 60 cpm* 120 gpm (468 lpm)
Maximum flow @ 100 cpm* 200 gpm (780 lpm)
Viscosity range of package 10,000 to 20,000 cps
Maximum inlet air pressure 120 psi (8.4 bar, 0.84 MPa)
Air inlet size 3/4 npt(f)
Evacuation efficiency 98%
Instruction manual 309505

* Flow rates are with muffler and do not vary based on diaphragm material.



Ordering Information

Part No.	Pump Type	Bin Manufacturer	Outlet Controls	Diaphragm/ Size	Ball Material
248654	Ball	Plywood	Pneumatic	3" (76 mm)	PTFE
248655	Ball	Plywood	Electronic/ Pneumatic	3" (76 mm)	PTFE

Note: Contact process marketing for ordering information on non-plywood bins.

Pumps and Packages

Graco offers the most complete range of pumps, packages and systems to meet all of your application requirements. Whether the materials you use comes in pails, drums, bins, totes or tankers, Graco has the solution. From fruit juices to fruit paste, from sliced tomatoes to paste, and from peanut oil to peanut butter, Graco pumps are designed to provide years of reliable service!



Husky FDA Plus Diaphragm Pumps



Husky FDA Diaphragm Pumps



300-Gallon BES (Bin Evacuation System)



Graco Piston Pump



55-Gallon Unloader Packages

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.
1.877.84GRACO (1-877-844-7226) or visit us at www.graco.com.

©2004 Graco Inc. Form No. 320567 Rev. A 3/04 Printed in the U.S.A.
All other brand names or marks are used for identification purposes and are trademarks of their respective owners.

