



SaniForce™ Drum Unloader

Unloads viscous materials from the food, beverage
and personal care industry out of your drum



Ensures product care, speeds up the process,
allows easy maintenance and improves safety

- Up to 99% evacuation of medium to high viscosity materials
- Sanitary flange clamps for quick disassembly
- One size follower plate and seal to accommodate straight-sided and tapered drums
- Provided with safety lock and drum locators for increased efficiency and faster change of drums
- Control panel with automation options



PROVEN QUALITY. LEADING TECHNOLOGY.

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Springer Pumps www.springerpumps.com
Springer Parts www.springerparts.com

Ordering Information

CONFIGURATOR SYSTEM IN 7 STEPS - EXAMPLE

Our offer is endless; therefore we made this easy configurator. Check the identification plate (ID) for the Configuration Number of your pump. **Sample Configuration Number: SDU. A01AAA1AA0C21**

SDU.	A	01	A	A	A	1	AA	0	C21
	1	2	3	3	4	5	6	6	7
SANITARY DRUM UNLOADER	FRAME STAINLESS STEEL	PUMP 5:1 DOUBLE BALL	PLATE SIZE 20" CONICAL INFLATABLE	SEAL TYPE INFLATABLE	SEAL MATERIAL POLYCHLORO-PRENE	CONTROLS EXPOSED PNEUMATIC, SST INFLATABLE	ACCESSORIES NONE	WASH BIN NONE	CERTIFICATION EN 10204 TYPE 2.1

MATRIX TO DEFINE THE COMPONENTS OF YOUR SYSTEM - EXPLANATION

1			2			3			3							
SANITARY DRUM UNLOADER			FRAME			PUMP			PLATE SIZE			SEAL TYPE				
SDU	A	STAINLESS STEEL	01	5:1 DOUBLE BALL			A	20"CONICAL, INFLATABLE			A	INFLATABLE				
	B	CARBON STEEL	02	5:1 PRIMING PISTON			B	21.25" CONICAL, STATIC			B	STATIC				
			03	6:1 DOUBLE BALL												
			04	6:1 PRIMING PISTON												
			05	12:1 PRIMING PISTON												
			06	1590HSP. SSFKEO ‡												
			07	1590HSP. SSPFPO ‡												
			08	1590HSP. SSPTPS ‡												
			09	1590HSP. SSSPSP ‡												
			11	2150HSP. SSFKEO ‡												
			12	2150HSP. SSPTPO ‡												
			13	2150HSP. SSPTPS ‡												
			14	2150HSP. SSSPSP ‡												
			16	3150HSP. FL—EO ‡												
			17	3150HSP. FL—PO ‡												
			18	3150HSP. FL—PS ‡												
			19	3150HSP. FL—SP ‡												
4			5			6			6			7				
SEAL MATERIAL			CONTROLS			ACCESSORIES			WASH BIN			CERTIFICATION				
A	POLYCHLOROPRENE		1	EXPOSED PNEUMATIC, SST INFLATABLE			AA	NONE			0	NONE		C21	EN 10204 TYPE 2.1	
B	EPDM		2	ENCLOSED PNEUMATIC, SST INFLATABLE			AB	CASTER KIT						C31	EN 10204 TYPE 3.1	
			3*	ENCLOSED ELECTROPNEUMATIC, SST INFLATABLE			AC	DRUM DOLLY RAM								
			5	EXPOSED PNEUMATIC, SST STATIC			AE	SST RAM PISTON RODS								
			6	EXPOSED PNEUMATIC, CARBON STEEL, INFLATABLE												
			7	EXPOSED PNEUMATIC, CARBON STEEL, STATIC												

Just follow the steps below to select your Drum Unloader.

1 CHOOSE YOUR RAM FRAME MATERIAL



A

Stainless Steel



B

Carbon Steel

2 CHOOSE YOUR PUMP

SaniForce Piston Pump



01 - 02



03 - 04



05

SaniForce Double Diaphragm Pump



06 - 09



11 - 14



16 - 19

3 SELECT YOUR PLATE SIZE / SEAL TYPE



BB

STATIC WIPER



AA

INFLATABLE SEAL

4 SELECT YOUR SEAL MATERIAL



A

POLYCHLOROPRENE (WHITE)



B

EPDM (BLACK)

5 SELECT YOUR CONTROLS



1 - 5 - 6 - 7

EXPOSED CONTROLS



2

ENCLOSED PNEUMATIC



3

ENCLOSED ELECTRO-PNEUMATIC
WITH HMI (PLC OPTIONAL)

6 SELECT YOUR ACCESSORIES



AA

NONE



AB

CASTER KIT



AC

DRUM DOLLY RAM

AE

SST RAM PISTON RODS

7 SELECT YOUR CERTIFICATION

C21

EN 10204 TYPE 2.1

C31

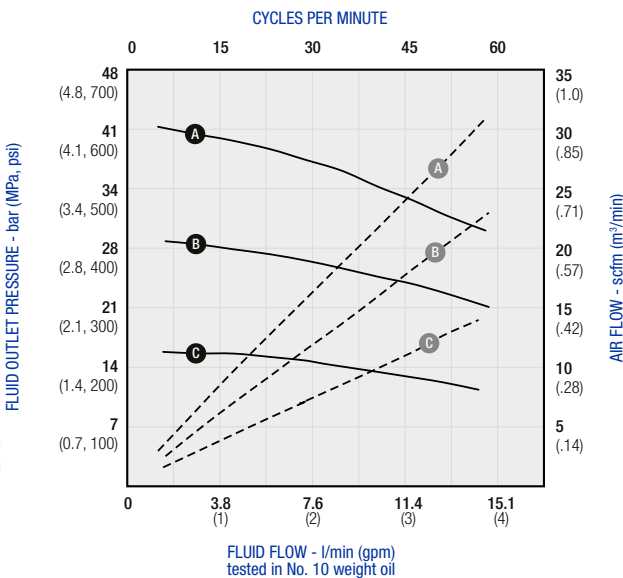
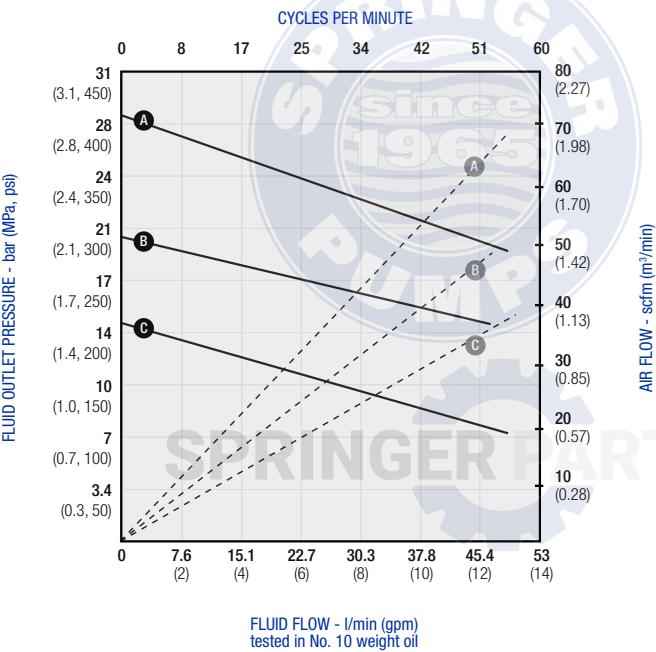
EN 10204 TYPE 3.1

Performance Charts

SANIFORCE 5:1



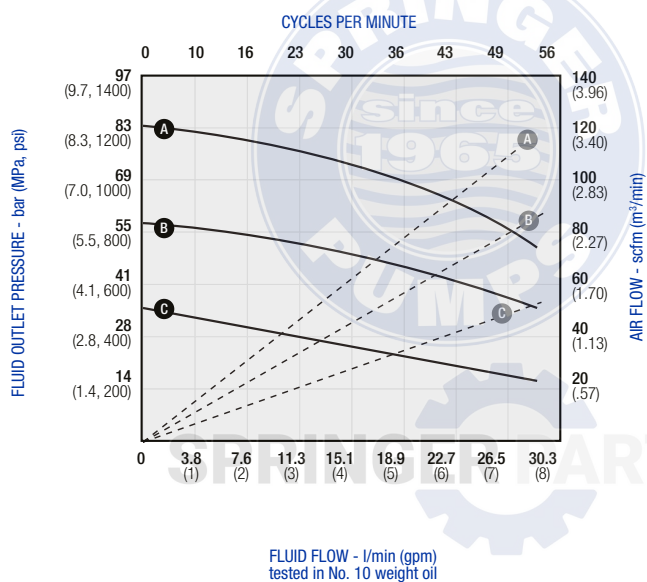
SANIFORCE 6:1



AIR PRESSURE	LEGEND
A = at 5.5 bar (0.55 MPa - 80 psi)	Air Consumption - - - -
B = at 4.8 bar (0.48 MPa - 70 psi)	Fluid Flow _____
C = at 2.8 bar (0.3 MPa - 40 psi)	

AIR PRESSURE	LEGEND
A = at 7 bar (0.7 MPa - 100 psi)	Air Consumption - - - -
B = at 4.8 bar (0.48 MPa - 70 psi)	Fluid Flow _____
C = at 2.8 bar (0.3 MPa - 40 psi)	

SANIFORCE 12:1



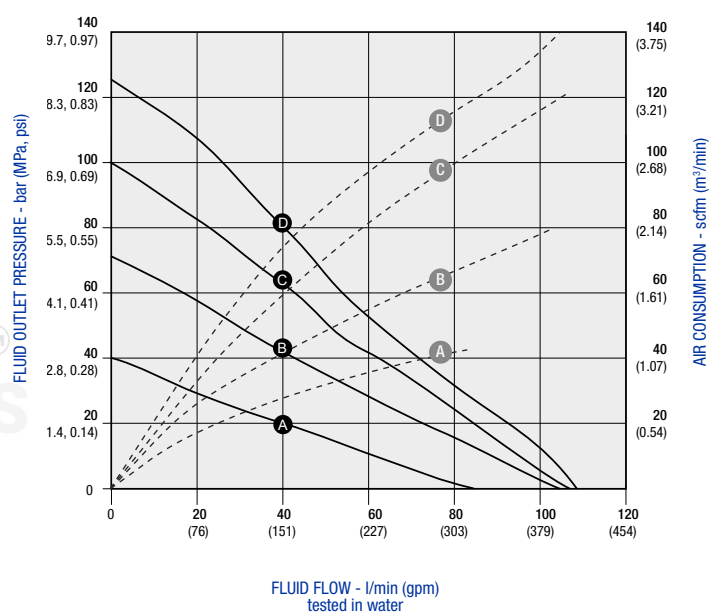
AIR PRESSURE

- A** = at 7 bar (0.7 MPa - 100 psi)
- B** = at 4.8 bar (0.48 MPa - 70 psi)
- C** = at 2.8 bar (0.3 MPa - 40 psi)

LEGEND

- Air Consumption - - - -
- Fluid Flow - - - -

SANIFORCE 1590



AIR PRESSURE

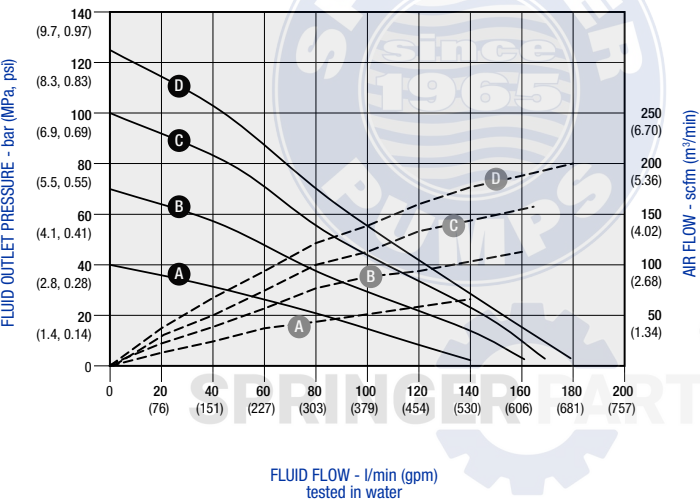
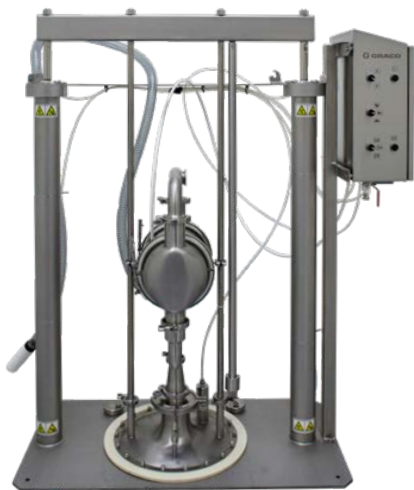
- A** = at 8.4 bar (0.84 MPa - 120 psi)
- B** = at 7 bar (0.7 MPa - 100 psi)
- C** = at 4.8 bar (0.48 MPa - 70 psi)
- D** = at 2.8 bar (0.3 MPa - 40 psi)

LEGEND

- Air Consumption - - - -
- Fluid Flow - - - -

Performance Charts

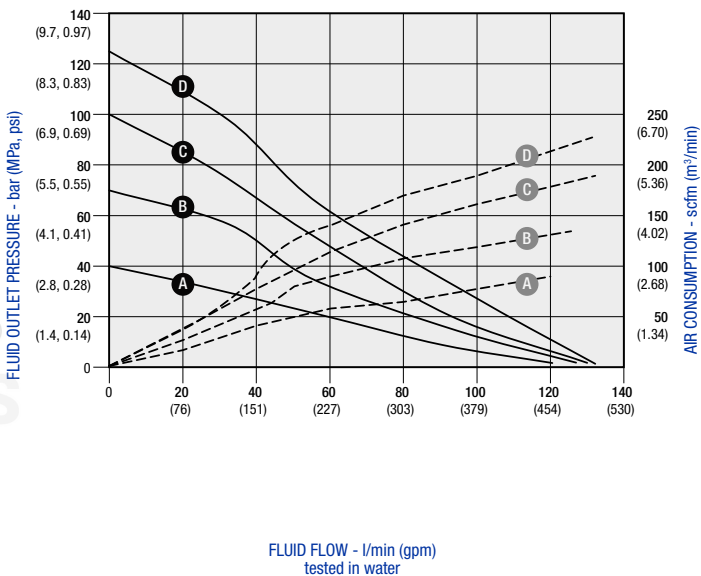
SANIFORCE 2150



- AIR PRESSURE**
- Ⓐ = at 8.4 bar (0.84 MPa - 120 psi)
 - Ⓑ = at 7 bar (0.7 MPa - 100 psi)
 - Ⓒ = at 4.8 bar (0.48 MPa - 70 psi)
 - Ⓓ = at 2.8 bar (0.3 MPa - 40 psi)

- LEGEND**
- Air Consumption - - - -
 - Fluid Flow _____

SANIFORCE 3150



- AIR PRESSURE**
- Ⓐ = at 8.4 bar (0.84 MPa - 120 psi)
 - Ⓑ = at 7 bar (0.7 MPa - 100 psi)
 - Ⓒ = at 4.8 bar (0.48 MPa - 70 psi)
 - Ⓓ = at 2.8 bar (0.3 MPa - 40 psi)

- LEGEND**
- Air Consumption - - - -
 - Fluid Flow _____

Technical Specifications

SDU model	SaniForce 6:1	SaniForce 5:1	SaniForce 12:1	SaniForce 1590	SaniForce 2150	SaniForce 3150
Max Flow Rate	Up to 15 lpm (4.0 gpm)	Up to 53 lpm (14 gpm)	Up to 32 lpm (8.5 gpm)	Up to 398 lpm (105 gpm)	Up to 681 lpm (180 gpm)	Up to 492 lpm (130 gpm)
Ball: Flapper:				398 lpm 303 lpm	681 lpm -	- 492 lpm
Max Fluid Pressure	45 bar (4.5 MPa, 650 psi)	28 bar (2.8 MPa, 400 psi)	83 bar (8.3 MPa, 1204 psi)	8 bar (0.8 MPa, 120 psi)	8 bar (0.8 MPa, 120 psi)	8 bar (0.8 MPa, 120 psi)
Max Working Air Pressure	6.9 bar (0.7 MPa, 100 psi)			8 bar (0.8 MPa, 120 psi)		
Pump Style	Double ball or priming piston	Double ball or Priming Piston	Priming piston	Ball	Ball	Flapper
Controls	Manual or electronic	Manual or electronic	Manual or electronic	Manual or electronic	Manual or electronic	Manual or electronic
Viscosity Range	Up to 1.000.000 cps			Up to 100.000 cps		

**Actual performance may vary by application*





ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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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.

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