

DC20 - CUSTOM SERIES

TECHNICAL DATA

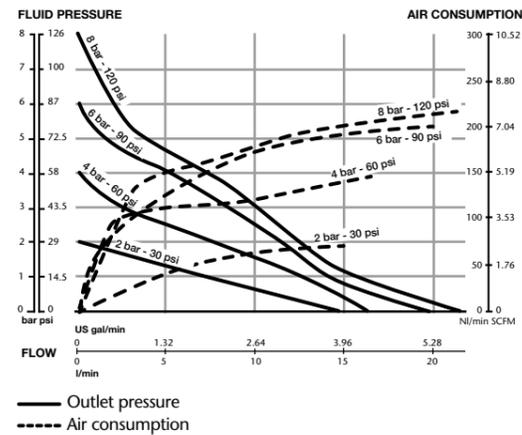
PRESSURE RATIO	1:1
MAXIMUM FREE DELIVERY	20 l/min 5 gal/min
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar (22 to 120 psi)
SOLIDS IN SUSPENSION MAXIMUM SIZE	2 mm (3/32")
MAXIMUM DRY SUCTION LIFT	2 m (6 1/2')
MAXIMUM WET SUCTION LIFT	7 m (23')
FLUID INLET AND OUTLET CONNECTIONS	Int.: 1/4" BSPP (F) - Ext.: 3/4" NPT (M)
AIR INLET CONNECTION	3/8" NPSM (F)
AIR VALVE	Spool Valve
WEIGHT	1,2 kg (2.65 lb)
OTHER WETTED PARTS	See available materials

PLASTIC

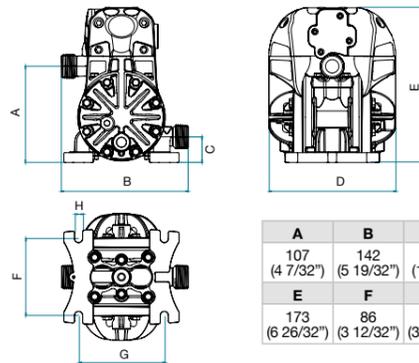
1:1
20 l/min 5 gal/min
1,5 to 8 bar (22 to 120 psi)
2 mm (3/32")
2 m (6 1/2')
7 m (23')
Int.: 1/4" BSPP (F) - Ext.: 3/4" NPT (M)
3/8" NPSM (F)
Spool Valve
1,2 kg (2.65 lb)
See available materials

Recommended for chemicals transfer, some submersible applications and aggressive atmospheres.

PERFORMANCE CURVES



DIMENSIONS mm (inches)



A	B	C	D
107 (4 7/32")	142 (5 19/32")	29 (1 9/64")	142 (5 19/32")
E	F	G	H
173 (6 26/32")	86 (3 12/32")	96 (3 25/32")	9 (11/32")

DC20 PUMPS CUSTOM SERIES



1/4" Air Operated Diaphragm Pumps

PLASTIC
DC20
CUSTOM



SAMOA INDUSTRIAL, S.A. - HEADQUARTERS

Pol. Ind. Porceyo, 1-14 • Camino del Fontán, 831
E-33392 Gijón (Asturias) SPAIN
Tel.: +34 985 381 488 - Fax: +34 985 147 213
export@samoaindustrial.com • www.samoaindustrial.com

© Copyright, SAMOA Industrial, S.A.
SAMOA Industrial, S.A. is an ISO 9001, ISO
14001 and OHSAS 18001 certified company.



DC20 - CUSTOM SERIES

1/4" Air operated diaphragm pump.

20 l/min
5 gal/min

The new SAMOA DC20 Directflo® 1/4" pump is developed for efficiency and reliability in dosing and small flow applications.

CUSTOM SERIES SET NEW STANDARDS IN DIRECTFLO® TECHNOLOGY

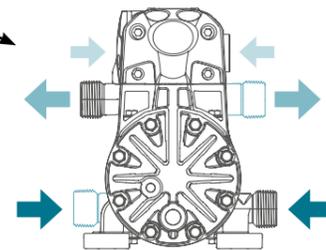
- ▶ Air motor design with spool valve.
- ▶ Compact.
- ▶ Top and lower fluid manifolds.
- ▶ Orientable ports and air valve.

- Low start up pressure.
- Low air consumption.
- Shorter strokes.
- Performs well at lower pressures.

- Improved resistance to abrasion.
- Minimum pulsation and vibration.
- Reduced noise.

New air motor with spool valve
Starts up below 20 psi (1.5 bar)

Orientable ports
Increased installation flexibility



Built-in air exhaust
Possibility to connect a hose or super-silent noise reducer

Orientable air inlet
Increased versatility

Robust operation
Highest quality materials used throughout design

One-piece fluid section
No fluid leakage

Double-tapped inlet and outlet ports
Int.: 1/4" (F) - Ext.: 3/4" (M)

Exclusive Directflo® pump technology.

DC20 - CUSTOM SERIES

1/4" Air operated diaphragm pump.

THE NEW CUSTOM SERIES MAKE THE DIFFERENCE THROUGH:

LOW START UP PRESSURE. Adjustable flow rate when regulating the air pressure.

COMPACT DESIGN. Ideal for OEM installation applications.

INCREASED RELIABILITY. No stall, non icing, start up reliability and longer duration. A must in industrial processes.

EFFICIENCY. Low air consumption.

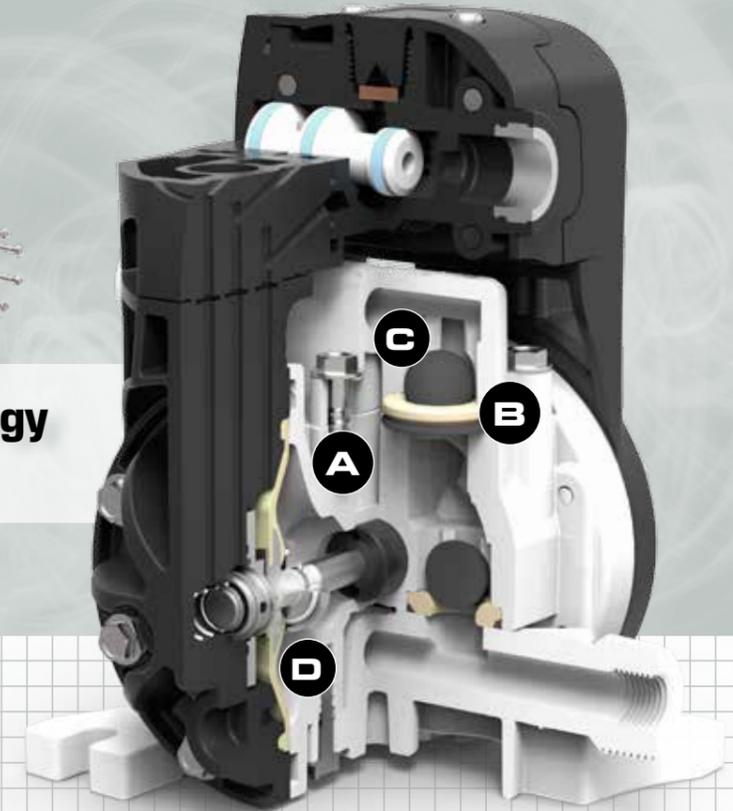
MAXIMUM VERSATILITY. Orientable air valve and inlet-outlet ports offer multiple mounting options.

EASY SERVICING. Exclusive Directflo® central flow design allows servicing diaphragms and air motor without dismantling it from the fluid line.

EFFICIENT & RELIABLE



Directflo® technology better by design.



Ex ATEX certified versions available

AVAILABLE MATERIALS

SAMOA offers a wide range of material options for maximum chemical compatibility and to stand abrasion, temperature and stress material caused by demanding conditions.

A- PUMP BODY

Polypropylene (white)
Conductive Acetal (black)
PVDF (dark grey)

B- CHECK-VALVE SEATS:

Soft seats (without o-rings):
TPE (Hytrel®)
Santoprene®

Hard seats (with o-rings):

Polypropylene
Acetal
PVDF
Stainless steel (AISI 316)

C- CHECK-VALVE BALLS:

Hard balls:
Acetal
PTFE
Stainless steel (AISI 316)

Soft balls:

TPE (Hytrel®)
Santoprene®

D- ONE-PIECE DIAPHRAGMS

TPE (Hytrel®)
Santoprene®
PTFE (Bonded)

**DC20
CUSTOM**