

Reliable Compact Design

DC20 PLASTIC PUMPS

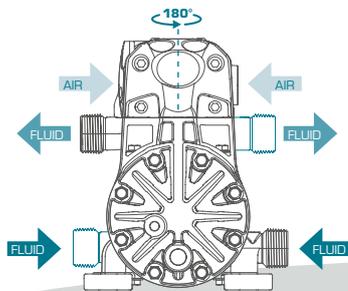
Air operated double diaphragm pumps for dosing and transferring a wide variety of fluids.

For OEM applications and industrial processes with lower flow rates. Unbalanced spool valve air motor requires lower start-up pressure for finer flow adjustment using regulating air pressure.

Pump wetted materials are compatible with the most aggressive fluids and are suitable for use in corrosive environments. Air motor (directional air valve and air chamber covers) is made of polypropylene.

Fully groundable ATEX certified pumps are available for use in potentially explosive atmospheres (Ex II2 GD IIB/IIC 95 °C).

1/4"
20 l/min
5 US gal/min



Orientable ports, increased installation flexibility.



Ex ATEX certified versions available
Ex II2 GD IIB/IIC 95 °C

RECOMMENDED MODELS

MODEL	PUMP BODY	DIAPHRAGMS	BALLS	SEATS	OTHER WETTED MATERIALS	RECOMMENDED APPLICATIONS
DC20PPSEPTMBAS	Polypropylene	Santoprene®	PTFE	Polypropylene	Stainless Steel, EPDM	Water based fluids and adhesives, diluted alkalis and acids, alcohols and water based coatings.
DC20PPSVPTHBAS	Polypropylene	TPE	PTFE	Polypropylene	Stainless Steel, FKM	Non aggressive aqueous chemical solutions, water.
DC20PPSTPTTBAS	Polypropylene	PTFE	PTFE	Polypropylene	Stainless Steel	Wide chemical compatibility. Good with acids and alkalis.
DC20PPYPTTBAS	Polypropylene	PTFE	PTFE	Polypropylene	Hastelloy® C	CIPs chlorinated cleaning agents and home industrial cleaning agents. Acids and alkalis.
DC20PWYTWTTBAS	PVDF	PTFE	PTFE	PVDF	Hastelloy® C	Almost universal chemical pump, including strong acids and alkalis above room temperature. Not recommended for some strong alkalis or concentrated nitric acid.
DC20PDSTCTTBAS	Conductive Acetal	PTFE	PTFE	Acetal	Stainless Steel	ATEX pump. Solvents (most ketones, acetates, aldehydes, aromatic and chlorinated hydrocarbons), solvent and water based flexo and gravure inks, varnishes and paint.

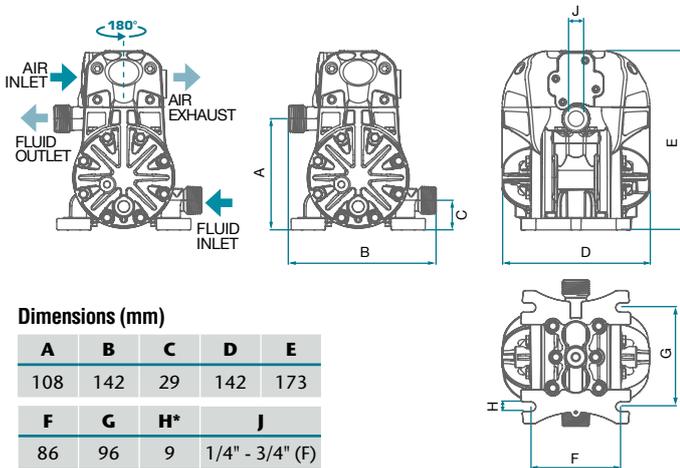


DC20 PLASTIC PUMPS

TECHNICAL DATA

Pressure ratio	1:1
Maximum free delivery (1)	20 l/min (5 US gal/min)
Delivery per stroke approx. (1)	0,03 litres (0.008 US gal)
Delivery per cycle (2 x strokes) (1)	0,06 litres (0.016 US gal)
Air pressure operating range	1,5 to 7 bar (22 to 100 psi)
Solids in suspension max. size	2 mm (3/32")
Maximum dry suction lift (1)	2 m (6 1/2')
Maximum wet suction lift (1)	7 m (23')
Weight	1,2 kg (2.65 lb)
Fluid inlet connection	Int.: 1/4" BSP/NPT (F) / Ext.: 3/4" NPT (M)
Fluid outlet connection	Int.: 1/4" BSP/NPT (F) / Ext.: 3/4" NPT (M)
Air inlet connection	3/8" NPSM (F)
Wetted part materials	See recommended models

(1) Data measured with water, air inlet pressure 7 bar (100 psi), 20 °C (68 °F).



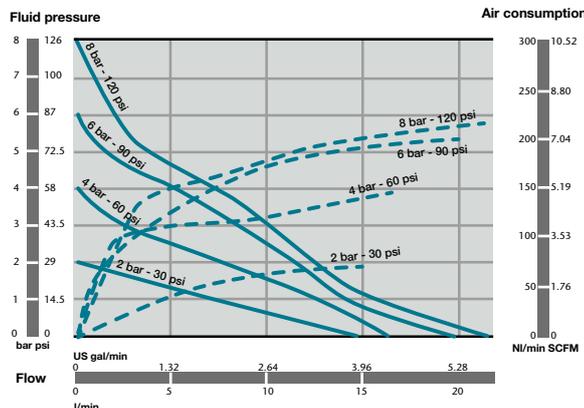
Dimensions (mm)

A	B	C	D	E
108	142	29	142	173
F	G	H*	J	
86	96	9	1/4" - 3/4" (F)	

* Diameter of the holes for fasteners in each of the four pump feet.
Flange connection: 2 bolts - M 5 (41 mm between centres).

PERFORMANCE CURVES

Tested at room temperature, with water and flooded pump with 800 mm (31 1/2") height of water above the pump inlet.



— Outlet pressure
- - - Air consumption

DC20 PLASTIC PUMP CODING SYSTEM

1	2	3	4	5	6	7	8	9	10
DC20	P	P	S	E	P	T	M	B	AS

1 PUMP SIZE

DC20

2 AIR MOTOR: DIRECTIONAL VALVE & AIR CHAMBER COVERS

P = Polypropylene

3 WETTED PUMP BODY

P = Polypropylene

B = Conductive Polypropylene (ATEX pump)

D = Conductive Acetal (ATEX pump)

W = PVDF

K = Conductive PVDF

4 PUSH ROD

S = Stainless Steel AISI 420

Y = Hastelloy® C

5 SEALS

V = FKM (Viton®)

E = EPDM

T = PTFE (Teflon®)

6 CHECK VALVE SEATS

P = Polypropylene

C = Acetal

W = PVDF

7 CHECK VALVE BALLS

T = PTFE (Teflon®)

C = Acetal

8 DIAPHRAGMS

T = PTFE (Teflon®)

M = Santoprene®

H = TPE (Hytrel®)

9 FLUID CONNECTION THREADS

B = BSP

N = NPT

10 OPTIONS

AS = Standard pump

BS = Remote air exhaust *

DS = Stroke sensor

FS = Extra muffler

* Included in all DC20 pumps

