

Pumps

SFPOP

Pressure Powered Pump

SF International reserves the right to change the designs and/or materials of its products without notice, ©2013 SF International



SFPOP-10 is a non electric pump which transfers high temperature condensate or other liquids from low point, low pressure or vacuum to an area of higher pressure or elevation. It is safe for using in explosive atmospheres. It uses steam, compressed air or any other suitable pressurized gas as the pumping force. It is available with either single, duplex or triplex pumps, mounted on a single base plate, that can be used for duty only or duty / stand-by applications. It is supplied with VRD-132 Check Valve, PRV-17 Pressure Reducing Valve, Cycle Counter and Level Indicator as standard.



AVAILABLE MODELS

SFPOP-10

CONVERSION FACTOR FOR GASES

Head (H)	1"	1 1/2"	2" x 2"	3" x 2"
0.15	2.30	2.30	2.30	2.95
0.3	3.28	3.28	3.28	3.28
0.6	3.94	3.94	3.94	4.27
0.9	4.43	4.43	4.43	4.43

PUMP

FEATURES

Model	SFPOP
Sizes	1" x 1", 1 1/2" x 1 1/2", 2" x 2" and 3" x 2"
Connections	150# Flange
Construction	Carbon Steel
PMO	355 psig
Pumps Discharge by Cycle	8.4 gal
Instantaneous Discharge	90 gpm
Steam Consumption	3 lbs of steam per 1000 lbs of liquid pumped
Air Consumption	100 SCF per 1000 lbs of liquid pumped

HOW TO ORDER

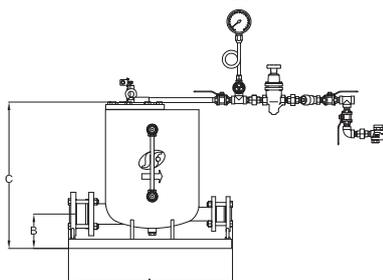
Specify:

- Model
- Sizes and type of connection

Example: 1 SF International 2" x 2" Pressure Powered Pump SFPOP-10 with 150# flanged connections.

DIMENSIONS & WEIGHT (INCHES & POUNDS)

DN	A	B	C	Weight
1" x 1"	29.13	20.47	3.94	156.53
1 1/2" x 1 1/2"	31.30	21.06	3.94	160.50
2" x 2"	29.92	21.65	3.94	164.24
3" x 2"	36.81	22.83	3.94	173.06



CAPACITIES - CONDENSATE (lb/h)

Motive Pressure (psig)	Back Pressure (psig)	1" x 1"	1/2" x 1 1/2"	2" x 2"	3" x 2"
5	3	1,598	2,701	3,803	6,195
10	2	1,995	3,296	5,104	8,697
24	10	2,094	3,902	5,600	10,031
24	5	2,293	4,200	6,096	10,395
48	40	1,995	3,197	4,795	8,201
48	24	2,293	3,704	5,798	9,789
48	10	2,403	4,001	6,404	10,803
74	58	1,995	3,395	5,004	8,499
74	40	2,403	3,803	5,798	9,789
74	14	2,502	4,200	6,603	11,199
98	58	2,205	3,594	5,798	9,899
98	40	2,403	4,200	6,096	10,395
98	14	2,601	4,597	6,603	11,199
122	58	2,293	3,891	5,997	10,196
122	40	2,403	4,497	6,305	10,593
122	14	2,601	4,696	6,702	11,310

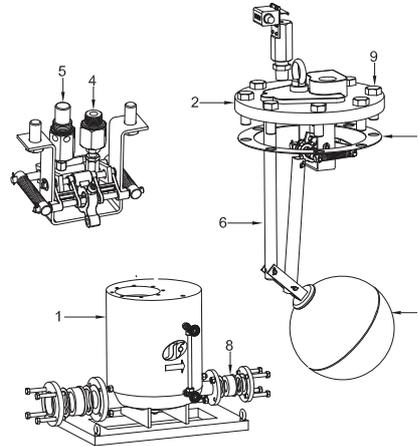


Pumps SFPOP

Pressure Powered Pump

COMPONENTS AND MATERIALS

Pos.	Description	Material
1	Body	ASTM A 106 CS
2	Cover	ASTM A 106 CS
3	Gasket	Non Asbestos Fiber
4	Inlet Valve	Stainless Steel
5	Exhaust Valve	Stainless Steel
6	Intern Mechanism	Stainless Steel
7	Float	Stainless Steel
8	Check Valve	ASTMA 316 CF8M
9	Bolts	CL 8.8 CS

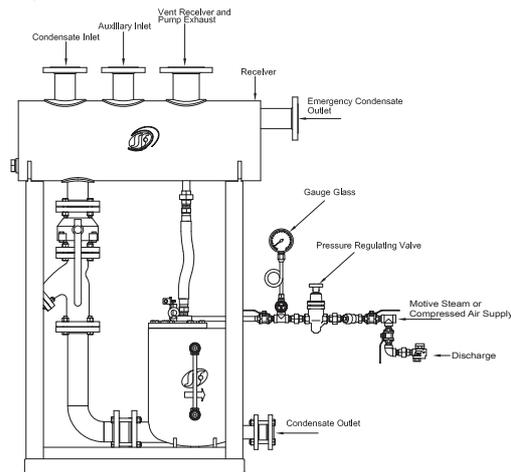


HOW TO ORDER SPARE PARTS (CODE)

Model	Description	Pos.	
SFPOP 1", 1 1/2", 2", 3"	Mechanism Assy	2, 3, 4, 5, 6, 7	9,455
	Float Assy	7	11,168
	Cover Gasket	3	19,532
	Inlet Valve Assy	4	12,712
	Exhaust Valve Assy	5	12,713
	Level Indicator	-	12,716
	Cycle Counter	-	13,204

PUMP

TYPICAL INSTALLATION



PRODUCT DISPOSAL

SFPOP should be located in a suitable position where the vent can be easily piped to atmosphere. For open systems the installation of a vented receiver in a horizontal plane above and ahead the pump should be installed. It is recommended that reasonable clearance is maintained.

SAFETY, INSTALLATION AND MAINTENANCE

For safety, installation and maintenance information see instructions supplied with the product (MI-0728-11).