



STEAM EQUIPMENT

PRESSURE OPERATED PUMP ADCAMAT POP-S

DESCRIPTION

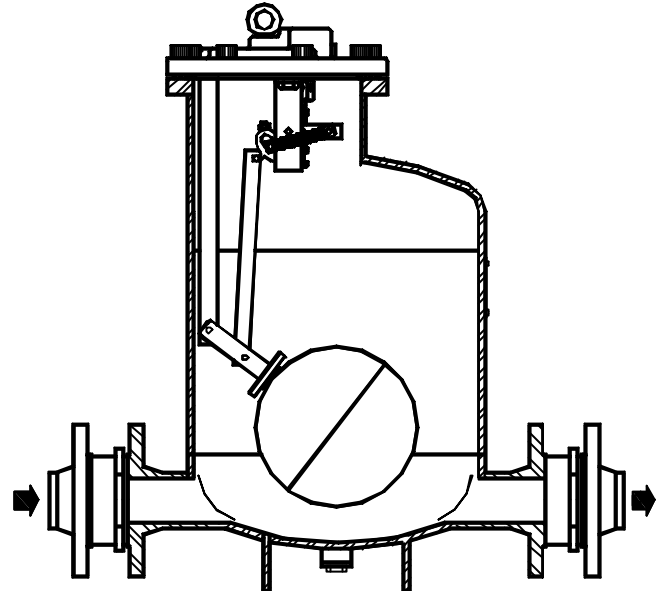
The ADCAMAT POP (Pressure Operated Pump) fabricated carbon steel (stainless steel on request) is recommended in the transfer of high-temperature liquids such as condensate, oils and other liquids to a higher elevation or pressure.

The pump starts when there is something to pump and stops when there isn't.

Under certain conditions, it can drain a closed vessel under vacuum or pressure.

The pump can be operated by steam, compressed air or gas and can be used for lifting any kind of noncorrosive liquids.

Connections are flanged or female screwed (with screwed flanges).



FUNCTION

Liquid flows by gravity into the pump through an inlet check valve lifting a float which, at the upper limit of its travel, opens the supply valve which allows steam or compressed air to enter the pump body. Pressure in the pump builds up until just sufficient to overcome back pressure.

The pressurized liquid opens the outlet check valve and discharge commences. When the float reaches the minimum lower level it closes the steam or compressed air supply valve and opens the vent, allowing the liquid to fill the pump again. As the amount of liquid discharged at each stroke is known, the total volume passed during a given period can be calculated by counting the number of strokes during that period. For this purpose a special counter is available which screws into a tapped connection on the top cover of the pump. This counter records the number of pumping strokes thus enabling the pump to function as a reliable flow meter.

MAIN FEATURES

Non-electric requirements.

OPTIONS:

- Stainless steel construction.
- Stainless steel check valves.
- Level gauge.
- Stroke counter.

USE : To lift condensate or hot and cold liquids.

AVAILABLE

MODELS : ADCAMAT POP-S - carbon steel body.
ADCAMAT POP-SS - Stainless steel body.

SIZES : DN 25 ; DN 40 ; DN 50 ; DN 80 x 50 .

CONNECTIONS : Flanged DIN. Special flanges upon request.
Female screwed ISO 7/1 Rp (BS21).

INSTALLATION : Horizontal installation .
See IMI installation and maintenance instructions.

How to order : i.e. ADCAMAT POP-S DN 50 PN16

BODY LIMITING CONDITIONS

RATING	PRESS. bar	TEMP. °C
DIN PN16	16	120
	14	198
ANSI CL.150	13	250
	16	120
	14	198

APPLICATION LIMITS

Minimum density: 0.80 kg/dm³
 Maximum viscosity: 5° Engler
 Max. motive pressure: 0.5 to 8.6 bar
 Motive gas : steam or compressed air
 Pump discharge per cycle :
 DN 25 - DN 50 :16 l
 DN 80 x DN 50 :25 l

CE Marking :

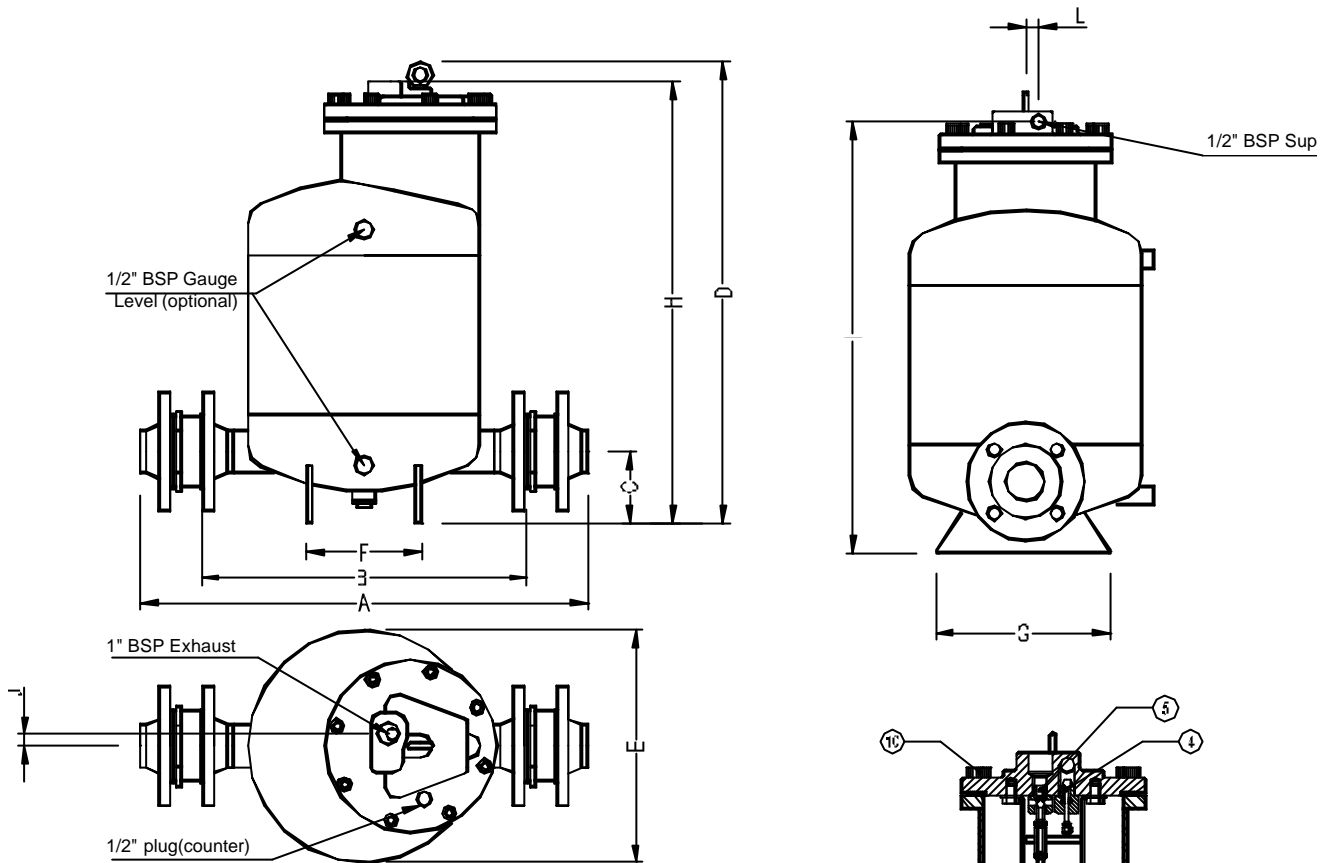
This product have been designed for use on water, steam, air and other gases wick are in Group 2 of the PED - European Pressure Equipment Directive 97/23/EC and it comply with those requirements. All the sizes fall within category 2. The product carry the CE mark .

VALSTEAM ADCA

We reserve the right to change the design and material of this product without notice.



IS 9.101 E 04.05


DIMENSIONS (mm)

SIZE DN	A*	B	C	D	E	F	G	H	I	J	L	WGT. Kg	VOL. dm3
25	568	440	100	640	323	160	250	617	595	17	18	71	31,7
40	606	448	100	640	323	160	250	617	595	17	18	72.8	31,8
50	634	455	100	640	323	160	250	617	595	17	18	74.5	31,9
80x50	780	580	108	650	406	200	340	627	605	17	18	78.5	48,9

* A - with welding neck DIN flanges.

MATERIALS

POS.NR.	DESIGNATION	MATERIAL	SPARE PARTS
1	BODY	CARBON STEEL	
2	COVER	GGG 40	*
3	GASKET	NON ASBESTOS FIBER	*
4	INLET VALVE / SEAT ASSY	STAINLESS STEEL	*
5	EXHAUST VALVE / SEAT ASSY	STAINLESS STEEL	*
6	INTERNAL MECHANISMS	STAINLESS STEEL	*
7	FLOAT	STAINLESS STEEL	*
8	SPRING ASSY (2)	STAINLESS STEEL	*
9	CHECK VALVES (2)	BRONZE	*
10	BOLTS	STEEL 8.8	
11	DIN2633 PN16 FLANGES	C 22.8	**

* AVAILABLE SPARE PARTS

** WELDING NECK DIN FLANGES, SCREWED FLANGES ON REQUEST.

