



Float and Thermostatic Steam Traps

FLT 16 (1/2" - 3/4")

Description

FLT 16 float and thermostatic (integral air vent) steam traps series are designed for all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential. Connections are female screwed or flanged for horizontal or vertical installation.

Main Features

Modulating discharge.

Discharges condensate at steam temperature.

Unaffected by sudden or wide load and pressure changes.

Excellent air discharge (by thermostatic air vent).

Options: Equalizing plug, venting connection and drain plug (or blow-off valve on body).

Use: Saturated and superheated steam.

Available

Models: FLT 16-4.5 - FLT 16-10 - FLT 16-14.

Sizes: 1/2", 3/4" - DN15, DN20.

Connections: Female screwed ISO 7/1 Rp (BS21)

Flanged DIN. Special flanges upon request.

Installation: Standard horizontal installation -

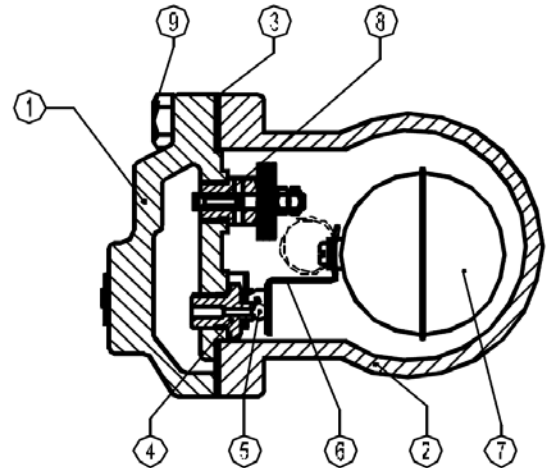
flow from right to left FLT16 (R-L)

Upon request:

-horizontal installation with the flow from left to right FLT16 (L-R)

-vertical installation with the flow from top to bottom FLT16 (V)

See IMI, installation and maintenance instructions.



Materials:

Pos.NR.	Designation	Material
1	Body	GGG40
2	Cover	GGG40
3 *	Gasket	Non Asbestos
4 *	Seat	AISI 410
5 *	Valve	AISI 410
6 *	Lever	AISI 304
7 *	Float	AISI 304
8 *	Air Vent	Stainless Steel
9	Bolts	Steel 8.8

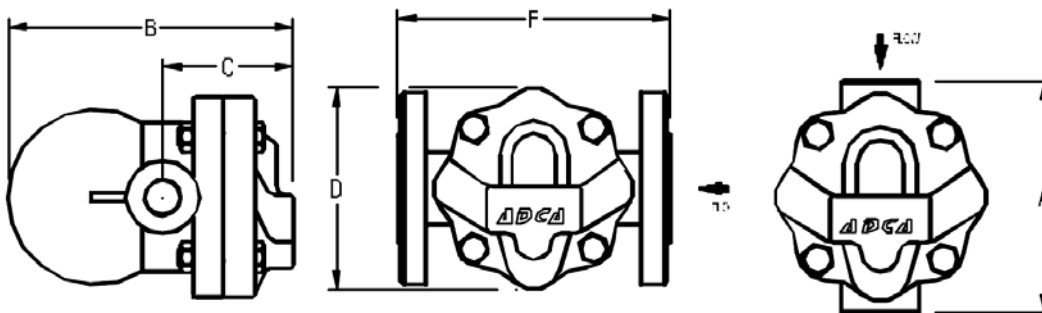
* Available spare parts

PMA :Max.allowable pressure	16 bar
TMA: Max.allowable temperature	250 °C
PMO: Max.operating pressure	14 bar
TMO: Max.operating temperature	198 °C

How to order: i.e. FLT16-10 DN 3/4" BSP.

Dimensions (mm)

SIZE DN	Screwed Ends				WEIGHT Kg	DIN Flanges	
	A	B	C	D		F	WEIGHT Kg
1/2"	122	150	68	108	3.5	150	4.4
3/4"	122	150	68	108	3.5	150	4.9



Max.differential pressure

FLT 16-4.5	- 4.5 bar
FLT 16-10	- 10 bar
FLT 16-14	- 14 bar

Flow Rate Capacity in Kg/h

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)													
		0.5	1	1.5	2	3	4.5	6	7	8	9	10	12	14	
FLT16-4,5	1/2"-3/4"	200	280	320	360	400	495								
FLT16- 10	1/2"-3/4"	110	140	175	190	230	280	300	330	350	390	405			
FLT16- 14	1/2"-3/4"	70	100	120	140	155	190	210	220	225	230	260	280	300	

Recommended safety factor : continuous 1.2 - 1.5 ; discontinuous flow 2 - 3 .



INSTALLATION AND MAINTENANCE INSTRUCTIONS

FLOAT & THERMOSTATIC STEAM TRAPS

FLT16

GENERAL

1. These instructions must be carefully read before any work involving products supplied by VALSTEAM ADCA ENGINEERING S.A. is undertaken.
2. The installation procedure is a critical stage in a life of a float trap and care should be taken to avoid damage to the float trap or equipment.

Warning!

- At start up, the presence of small particles in the water (dirt, scale, weld splatters, etc) may cause an unperfected closure of the seat. If this occurs, proceed to an accurate cleaning.
- Do not touch the equipment without appropriate protection during working operation because it may conduct heat if the used fluid is at high temperature.
- Before starting maintenance be sure that the equipment is not pressurized or hot.
- The equipments must be used within the working temperature and pressure limits laid down for them, otherwise they may fail (refer to nameplate and/or IS - Information Sheet).
- Do not remove the nameplate attached to the equipment. Serial number and other useful information is stamped on it.

INSTALLATION

1. Before to install remove plastic covers placed on flanges or connection ends. The equipment has an arrow or Inlet/Outlet designations. Be sure that it will be installed on the appropriate direction.
2. Install the steam trap in the point of the system, where the condensate tends to collect. It must be installed with the float lever in horizontal plane, so that it rises and falls vertically. An ADCA strainer should be installed upstream of the trap.

LIMITING CONDITIONS	
PMA: Max. allowable pressure	16 bar
TMA: Max. allowable temperature	250 °C
PMO: Max. operating pressure	14 bar
TMO: Max. operating temperature	198 °C

MAX. DIFFERENTIAL PRESSURE	
FLT 16-4,5	4,5 bar
FLT 16-10	10 bar
FLT 16-14	14 bar

MAINTENANCE

1. We recommend that the float steam traps are serviced as necessary. Steam traps should be checked periodically (at least yearly), to verify that they are operating correctly and to clean the internal parts and screen (if any).
2. When reassembling make sure that all gasket faces are clean and always use a new gasket. Tighten cover bolts uniformly in a diagonal sequence.
3. For further information refer to the relevant FLT16 brochure or consult our Sales Office.

CE Marking:

This product have been designed for use on water and steam which are in Group 2 of the European Pressure Equipment Directive 97/23/EC and it comply with those requirements. The product carries the CE mark when falling in category 1 and above.

GROUP 2 GASES CATEGORY		
MODEL	SIZES	CATEGORY
FLT 16	DN 15-40	SEP
FLT 16	DN 50	1

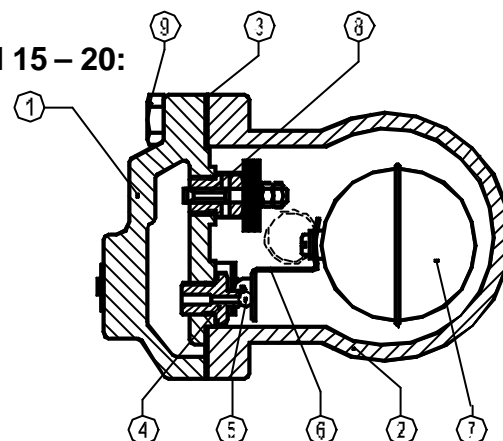
PARTS LIST FOR FLT16 DN 1/2" – 3/4", DN 15 – 20:

CODE	DESIGNATION	TRAP SIZE DN	POS.NR.	QTY.
A.92.1402.015	Valve, seat, float & gasket D.P. 4,5 bar	1/2" - 3/4"	3, 4, 5, 6, 7	1 set
A.92.1403.015	Valve, seat, float & gasket D.P. 10 bar	1/2" - 3/4"	3, 4, 5, 6, 7	1 set
A.92.1404.015	Valve, seat, float & gasket D.P. 14 bar	1/2" - 3/4"	3, 4, 5, 6, 7	1 set
A.92.1402.115	Float & gasket	1/2" - 3/4"	3, 7	1 set
A.92.1402.215	Air vent & gasket	1/2" - 3/4"	3, 8	1 set

Recommended tightening torques FLT16 DN 1/2" – 3/4", DN 15 – 20:

POS.NR.	TRAP SIZE DN	Nm
4	1/2" - 3/4"	50-55
8	1/2" - 3/4"	50-55
9	1/2" - 3/4"	40-45

Remarks: Tighten cover bolts uniformly.



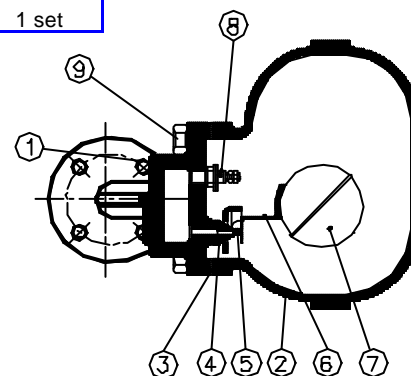
PARTS LIST FOR FLT16 DN 1", DN 25:

CODE	DESIGNATION	TRAP SIZE DN	POS.NR.	QTY.
A.92.1402.025	Valve, seat, float & gasket D.P. 4,5 bar	1"	3, 4, 5, 6, 7	1 set
A.92.1403.025	Valve, seat, float & gasket D.P. 10 bar	1"	3, 4, 5, 6, 7	1 set
A.92.1404.025	Valve, seat, float & gasket D.P. 14 bar	1"	3, 4, 5, 6, 7	1 set
A.92.1402.125	Float & gasket	1"	3, 7	1 set
A.92.1402.215	Air vent & gasket	1"	3, 8	1 set

Recommended tightening torques FLT16 DN 1", DN 25:

POS.NR.	TRAP SIZE DN	Nm
4	1"	50-55
8	1"	50-55
9	1"	40-45

Remarks: Tighten cover bolts uniformly.



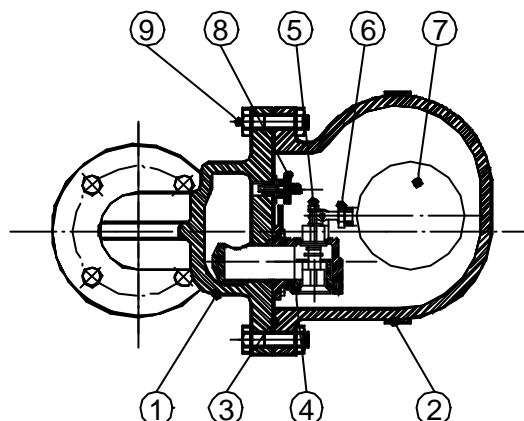
PARTS LIST FOR FLT16 DN 1 1/2" - 2", DN 40 - 50:

CODE	DESIGNATION	TRAP SIZE DN	POS.NR.	QTY.
A.92.1402.040	Valve, seat, float & gasket D.P. 4,5 bar	1 1/2"	3, 4, 5, 6, 7	1 set
A.92.1403.040	Valve, seat, float & gasket D.P. 10 bar	1 1/2"	3, 4, 5, 6, 7	1 set
A.92.1404.040	Valve, seat, float & gasket D.P. 14 bar	1 1/2"	3, 4, 5, 6, 7	1 set
A.92.1402.140	Float & gasket	1 1/2"	3, 7	1 set
A.92.1402.050	Valve, seat, float & gasket D.P. 4,5 bar	2"	3, 4, 5, 6, 7	1 set
A.92.1403.050	Valve, seat, float & gasket D.P. 10 bar	2"	3, 4, 5, 6, 7	1 set
A.92.1404.050	Valve, seat, float & gasket D.P. 14 bar	2"	3, 4, 5, 6, 7	1 set
A.92.1402.150	Float & gasket	2"	3, 7	1 set
A.92.1402.215	Air vent & gasket	1 1/2"-2"	3, 8	1 set

Recommended tightening torques FLT16 DN 1 1/2" - 2", DN 40 - 50:

POS.NR.	TRAP SIZE DN	Nm
4	1 1/2"	10-15 (4xM6)
4	2"	20-25 (4xM8)
8	1 1/2" - 2"	50-55
9	1 1/2"	60-65
9	2"	80-85

Remarks: Tighten cover bolts uniformly.



LOSS OF GUARANTEE: Total or partial disregard of above instructions involves loss of any right to guarantee.