

## **THERMODYNAMIC** STEAM TRAPS **DK 100 F22**

#### **THERMODYNAMIC**

This type of trap uses steam dynamic energy to close the discharge orifice. A disc closes both the inlet and outlet orifice. Condensate can lift the disc and be discharge , but when steam is formed its dynamic energy will create a low pressure area ( Bernulli Law ) under the disc which draws it towards the seat.



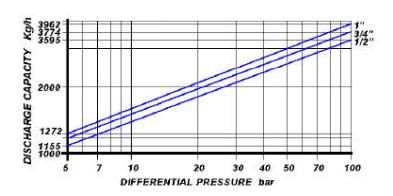
#### **MAIN FEATURES**

Reduced dimension and wheigt simple and reliable. It discharges air. It withstands waterhammer. Condensate discharge is intermittent. Some loss of live steam.

### **APPLICATIONS**

- Ironing machines
  - Steam mains
- ā Tracing lines
- Turbines
- Marine applications
- Presses

#### **DISCHARGE CAPACITY**



Cold water capacities are 2 to 4 times greater than the above. Safety factor = 1.2 - 1.5

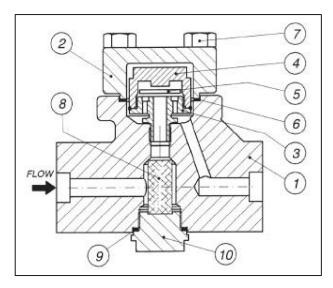
SIZES			
1/2" - 3/4"	- 1	 	

CONNECTIONS	
SCREWED	ANSI B 1.20.1 ( NPT )
BUTTWELD	ANSI B 16.25
SOCKET WELD	ANSI B 16.11
FLANGED	ANSI 600#/1500#/UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)						
Steam Trap rating	1500					
PMA: Max allowable pressure	260 bar					
TMA: max allowable temperature	510°C					
PMO: max working pressure	100 bar					
TMO: max working temperature	495°C					
Minimum Working Pressure	5 bar					
PMOB: max working back pressure	80%					

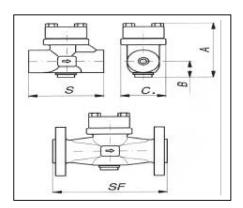
Douglas Italia reserves the right to carry-out any necessary modification without prior notice

# THERMODYNAMIC STEAM TRAPS **DK 100 F22**



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A182 F22	
2	Cover	ASTM A182 F22	
3	Seat	AISI 421	X
4	Cover seat	AISI 431	X
5	Disc	AIS 431	X
6	Gasket	316 / GRAPHITE	X
7	Bolts	ASTM A193 B8	
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X
10	Strainer cap	ASTM A182 F22	

						Flanged					
Size	S	A	В	C	Weight	UNI-DIN		600#		1500#	
(inches)					(Kg)	PN 40 - 100					
						SF	Kg	SF	Kg	SF	Kg
1/2"	155	150	48	94	7	242	9	242	8.5	242	11.3
3/4"	155	150	48	94	7	242	11	242	9.2	242	12.5
1"	155	150	48	94	7	242	12.2	242	11.2	242	15



#### **INSTALLATION**

The steam trap can be installed in any position, however it should be preferably fitted on horizontal pipelines. **HOW TO SERVICE** 

By installing a new seat-disc assembly you can bring the steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing steam trap from the pipeline. Remove cover(2),unscrew seat-disc assembly and clean the inside of the body. Screw in the new assembly (3-4-5),replace body,cover,gasket (6) and reassemble cover. To service the strainer unscrew the relevant cap (10) and clean or replace the screen. Screwing the cap back always fit a new gasket (9).

How to order: i.e. DK 100 1" SW F22

## **DOUGLAS ITALIA S.p.A** Località Pradaglie – 29013 CARPANETO PIACENTINO ( PC )

OFFICIAL WEB SITE: www.douglas-italia.com