

Type GFC 2317

Gas-Freeing Cover

Gas-freeing cover type GFC is the most safe and versatile means of individual gas-freeing for exclusively inerted tankers.



Gas freeing cover type GFC

Type GFC ensures explosion safe gas-freeing on inerted tanks by means of a double flame screen unit. During operation, the efflux velocity is above 20 m/sec. and thereby clearing vapors from deck. The cover is tested fully in accordance with IMO MSC/Circ.677. Pressure drop across the cover is very low which enables a rapid number of volume changes in the tank. Type GFC can be installed in combination with a Pres-Vac high velocity vent for the most economical installation, while at the same time observing the requirements for sizing and capacity according to the inert gas code. By using gas-freeing covers, not only is the ultimate safety achieved but also the ability to gas-free only one tank at a time without the need to connect inert gas piping to the cargo loading system. Type GFC is available in any size needed to accommodate the fastest possible operation considering the Code requirement for gas-freeing of 3 tanks simultaneously. Further, the use of a properly sized GFC is the most effective way of minimizing the crew's exposure, yet the fastest means of gas-freeing.



Gas-freeing cover type GFC mounted on high velocity vent type HS.

Features of type GFC 2317:

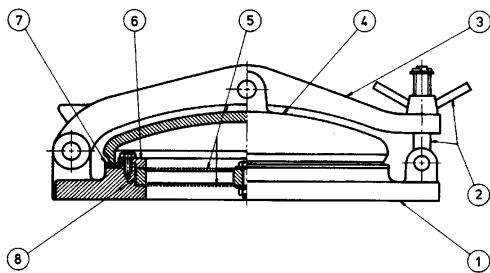
- Explosion safe
- Compact size
- High efflux velocity for clearing of deck level
- Available in materials compatible with any cargo
- Easy maintenance
- Rigid design
- 2 m. installation requirement
- Minimum exposure of crew to toxic vapor
- Minimum time consumption for gas-freeing operations

Gas-freeing cover

Specifications	
Type:	GFC 2317
Dimensions:	See drawing no. 2317
Capacities:	Up to 10,000 Nm ³ /h See certified curves
Pressure drop:	See certified curves
Materials:	Standard: Cast iron, bronze, stainless steel
Efflux:	Vertical and min. 20 m/sec

Nominal sizes:
ND50 - 350

Certification:
Approved and tested by the Danish Maritime Administration according to IMO MSC/Circ.677 and on that basis approved by all classes for use on inerted tankers (exclusively). Installation to be in accordance with IMO MSC/Circ.731 and inert gas requirements.



Type GFC

Item	Description
1	Flange
2	Locking device
3	Clamp
4	Cover
5	Filter element
6	Retaining ring
7	Gasket
8	Netring

Available with any connection and in any material requested. Please ask for detail drawing and performance data sheets for any specific model and type.

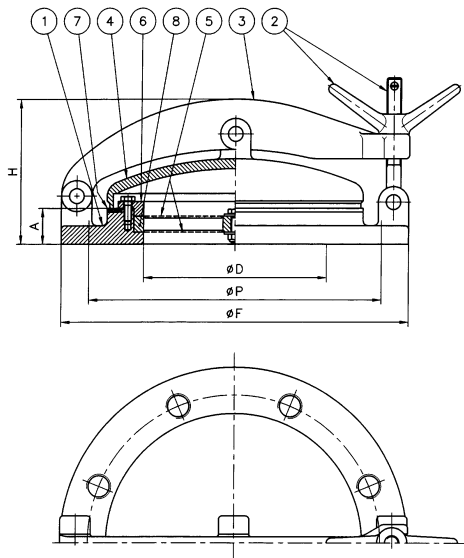
drwg. no.:	2317		
date:	960815	drwg.:	AP
model:	-	scale:	-
drw. rev.:	5	material:	-

Type GFC

Gas freeing cover

This drawing is for guidance only. Other sizes, materials, flange standards, settings, and versions are available. Request a specific quotation or approval drawing before implementing data.

					Other standards available	Clear area	Min. flowrate [m ³ /h] at a velocity of 20 m/s
14	350	185	530	35	460 16xM16	374	2692
12	300	170	480	35	400 12xM16	274	1979
10	250	150	406	28	350 12xM16	190	1368
8	200	125	340	28	295 8xM16	121	871
6	150	105	285	28	240 8xM16	67	482
5	125	105	254	28	210 8xM16	47	344
4	100	105	228	28	180 8xM16	30	220
3	80	105	200	22	160 4xM16	19	141
°D	°D	H	°F	A	P-mm	Holes	
inch	mm	mm	mm	mm	drilling		cm ²



IMO Type Test Approved
as per. IMO-MSC/Circ. 677
Item 7 available in PTFE on request

Parts list

Item	Description	Spec. 1	Spec. 2	Spec. 3	Spec. 4
1	Flange	Cast iron	Bronze	Stainless steel	Combinations of Spec. 1-2-3
2	Locking device	Bronze	Bronze	Stainless steel	
3	Clamp	Bronze	Bronze	Stainless steel	
4	Cover	Cast iron	Bronze	Stainless steel	
5	Filter element	Stainless steel	Stainless steel	Stainless steel	
6	Retaining ring	Bronze	Bronze	Stainless steel	
7	Seat	Nitrile	Nitrile	PTFE	
8	Netring	Bronze	Bronze	Stainless steel	