

Type VFA 2273-1

Vertical Efflux Flame Screen

Type VFA is the ideal flame arrester for mounting end-of-line at the mast outlet for high capacity applications. For small and medium capacity applications, type EPV is recommended. Type VFA is ideal for versatile cargoes as the gas outlet area can be adjusted without limits to prevent oil mist above deck caused by compression and too high velocity.

Type VFA features extreme low pressure drop and is designed for high capacity applications such as oil tankers with old-fashioned common venting systems. For applications with highly volatile crude – typically shuttle tankers where pressure control valve type N is used – type VFA features adequate drainage ports that are connectable to collection facilities. The flame screen unit is easily removable to enable frequent inspection and cleaning as may be needed depending primarily on inert gas quality. Type VFA is fully approved for exclusively inerted vessels and for group II A gases. The typical installation where a high capacity flame screen is used will feature either small breather valves (type FLS) on each tank (common venting) or full sized high velocity vents (type HS-IMO2) on each tank for full safety independent on crew routines (individual venting). Consequently, the flame screen is not the source of relief for thermal variation or sloshing. When selecting the right size of flame screen, the most important aspect is a careful pressure drop calculation according to IMO MSC/Circ.731 to ensure that the p/v valves do not operate prematurely or cause excessive leakage.

Features of type VFA 2273-1:

- IMO approved as explosion safe
- Compact size compared to capacity
- Efficient drainage for high vapor pressure crude
- Easy maintenance
- Simple and rigid design
- Adjustable net clearance to reduce oil mist formation

Options: See specification



*End-of-line vertical flame arrester
type VFA 2273-1
Displayed version is a small bore
execution. Drainage ports for collection
systems are not displayed.*

End-of-line vertical efflux flame arrester

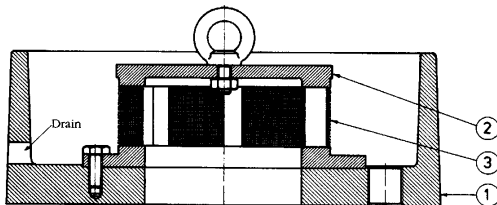
Flame Screen type VFA 2273-1

Specifications	
Type:	VFA
Dimensions:	See drawing 2273-1
Capacity:	Up to 30,000 Nm ³ /h*. See certified curves
Ice layer:	20 mm
Materials:	Fabricated steel. Flame withholding screen in stainless steel 316
Drainage:	4 ports

Nominal sizes:	ND350 - 700
Options:	Heating elements, drainage connections on ISO version

Certification**	Certified by the Danish government's according to IMO MSC/Circ.677. Application is limited to group II A gases. Installation to be in accordance with IMO MSC/Circ.731.
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*Depending on vessel specification and the cargo vapor's physical properties, cf. IMO MSC/Circ.731.
 **Reference is made to our report on flame arresters.



Type VFA 2273-1

Item	Description
1	House
2	Netring
3	Protecting Screen

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.:	2273-1		
date:	821901	drwg.:	AP
model:	-	scale:	-
drw. rev.:	-	material:	-

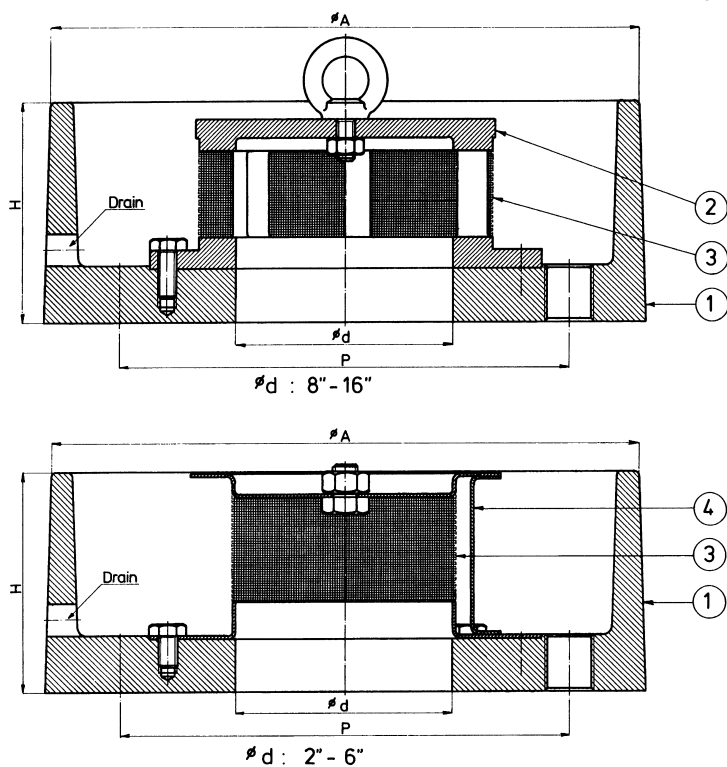
Type VFA

Flame arrester for vertical discharge

Reduced pressure drop versions are available by means of extended flame arrester units.

16	400	600	275	515	16xM24
14	350	535	250	460	12xM20
12	300	475	225	400	12xM20
10	250	420	200	350	12xM20
8	200	360	150	295	8xM20
6	150	300	120	240	8xM20
5	125	270	105	210	8xM16
4	100	230	90	180	8xM16
3	80	210	75	160	4xM16
2½	70	195	70	145	4xM16
2	50	170	60	125	4xM16

°d	°d	°A	H	P-mm	Holes
inch	mm	mm	mm	drilling	



*Available for °d: 10"-16"

Parts list

Item	Description	Spec. 1	Spec. 2	Spec. 3*
1	House	Cast iron	Stainless steel	Steel
2	Netring	Bronze	Stainless steel	Steel
3	Protecting screen	Stainless steel	Stainless steel	Stainless steel
4	Netring		Stainless steel	

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.