EPV

Vertical, end-of-line flame arrestor

PRES·VAC

Introduction

The vertifcal EPV flame arrestor is ideal for small and medium capacities up to 21,500 Nm^3/h.

SUMMARY

Type	**EPV**
Dimensions of tube	**DN 50 - DN 300**
Capacities	**Up to 21,500 Nm^3/h**
Materials	**Cast iron, stainless steel, inconel and cast steel. Other metals on request**

Contents

Features and benefits

FEATURES

- Simple and rigid design with low pressure drop.
- Flame screen protection.
- Flame screen with 0.65 MESG - Gas group IIB
- Drainage holes to drain off water.
- Available from DN50 to DN300 flange diameter and multiple flange standards
- Maintenance of few parts only
- Easy access for service of unit

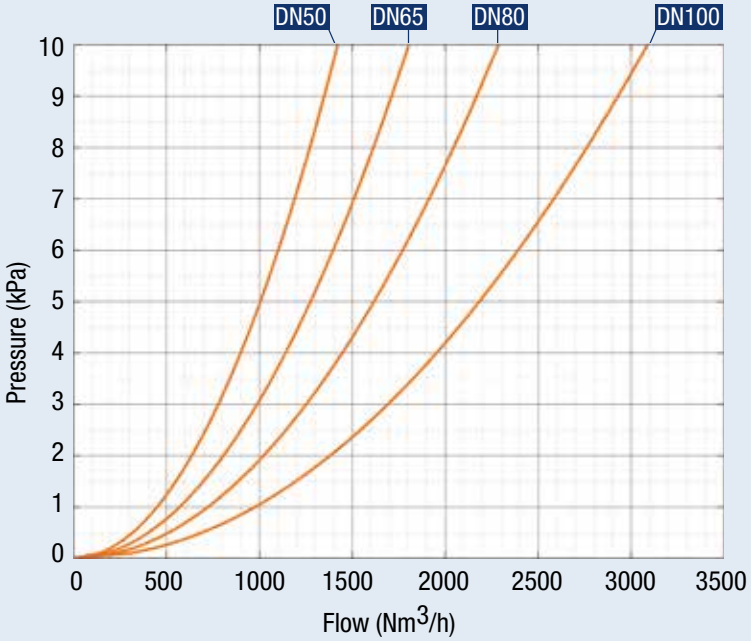
BENEFITS

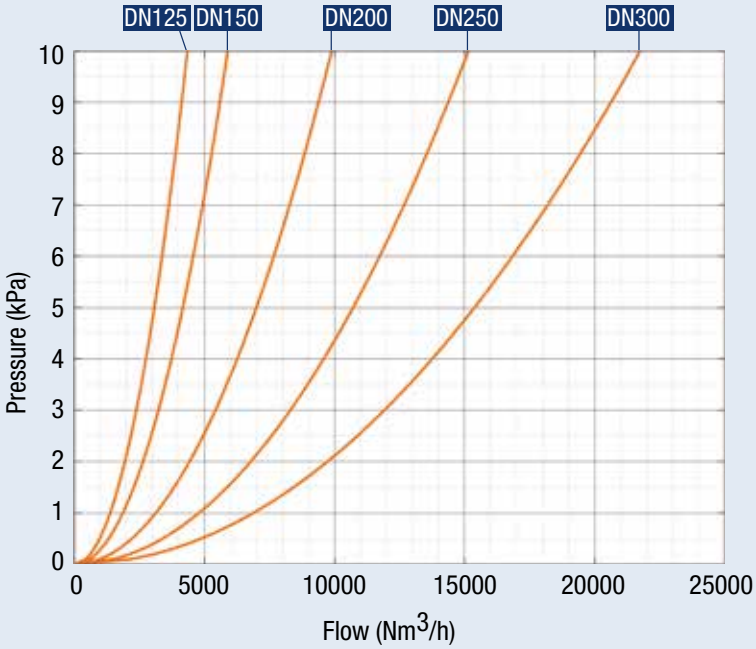
- Automatic operation without need for attention during loading, discharging and ballasting.
- Stable function during voyage regardless of thermal variation and sloshing.
- Flame screen protection against snow and ice.
- Efficient drainage of rain water, condensation and water from cleaning.
- Fully approved for exclusively inerted vessels and for group II A and group II B.
- Handy removal for inspection and cleaning.
- Replacement of spare parts is cost efficient due to the simple design.
- Maintenance kit available for easy replacement by crew.

Approved in accordance with IMO MSC/Circ. 677

Specifications

CAPACITIES

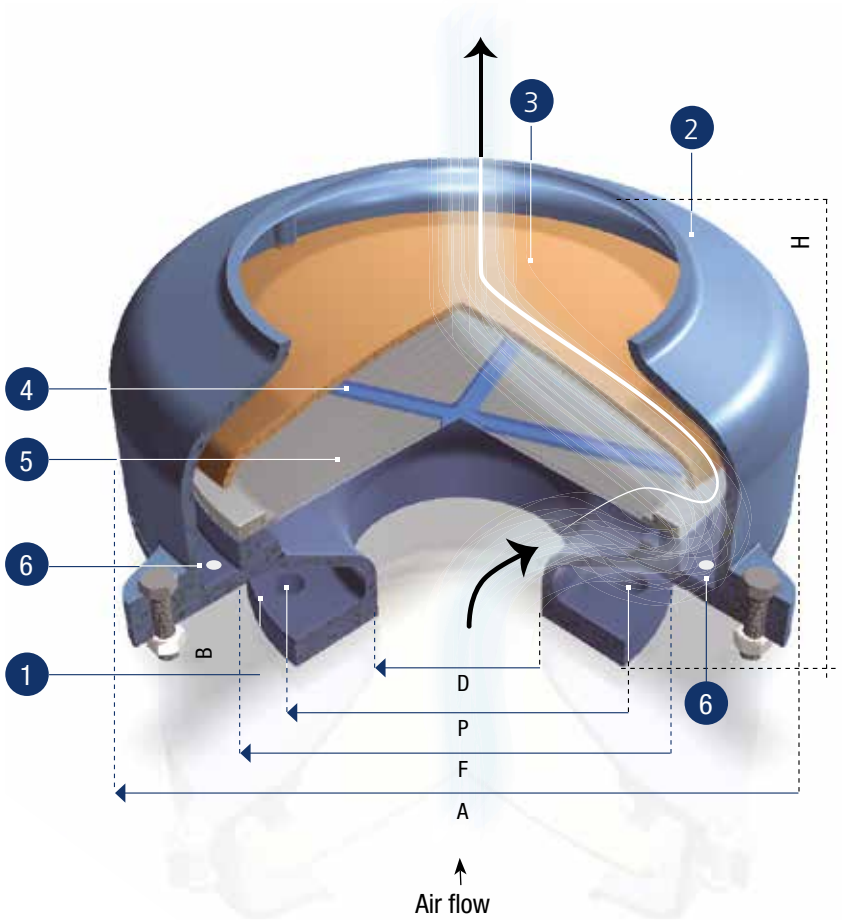




EXAMPLES OF STANDARD MATERIALS

Unit	Specification 1	Specification 2
Housing	Cast iron	Stainless steel
Weather hood	Cast iron	Stainless steel
Deflector	Cast iron	Stainless steel
Net ring	Stainless steel	Stainless steel
Flame screen	Stainless steel	Stainless steel

Specifications



ITEM	DESCRIPTION
1	Housing
2	Weather hood
3	Deflector
4	Net ring
5	Flame screen
6	Drain holes

DIMENSIONS

Shown values are DIN PN10 standard

D inch	D mm	A-mm	B-mm	H-mm	F-mm	P-mm	Holes	
12	300	835	170	390	445	400	12x22	
10	250	720	160	350	395	350	12x22	■
8	200	620	145	290	340	295	8x22	
6	150	510	120	235	285	240	8x22	■
5	125	440	115	230	250	210	8x18	
4	100	360	105	205	220	180	8x18	■
3	80	315	95	195	200	160	8x18	
2 1/2	65	315	95	195	185	145	4x18	■
2	50	315	95	195	165	125	4x18	

AVAILABLE FLANGE STANDARDS

DS PN6, PN10, PN16	■
JIS 10K	
JIS 5K	■
ANSI 150	
ANSI 300	■

GAS GROUP ACCORDING TO THE IBC CODE

IIA and IIB	■

Safety and Compliance

INTERNATIONAL MARINE BUSINESS REGULATIONS

The marine sector is restricted by several rules and regulations stipulated by leading classification societies. The EPV valve has been subjected to severe tests in order to meet these market demands for high quality and safety.

Pres-Vac takes great care in complying with the latest rules, as they concern reduced cargo emission, safety for the crew, improvement of working environment and reduction of the environmental impact.

CERTIFICATION

Fulfils the requirements of DS/EN ISO 9001:2008

Quality Management Systems - Requirements.
The scope of the certification: Development, manufacturing and sales of equipment for the maritime and off-shore industry.

Fulfils the requirements of IMO MSC/Circ. 677 and EU-MED

Identification of marine equipment:

Annex A. 1 item:	A. 1/3.12 Devices to prevent the passage of flame into cargo tanks in tankers.
Product type:	Flame screen unit EPV, class IIB3 and conversion kit for EPV class IIA.
Product designation:	EPV 1700-1 according to drawing 1700-1, rev. 0 dated 1985-11-18 and 1700-5, rev. 0 dated 2013-04-22.
Specified standard:	IMO MSC/Circ. 677, 1324 and 1325; EN 12874: 2001 replaced by EN ISO 16852:2010

TYPE APPROVAL

Type approved by major classification societies.

Service and maintenance

NETWORK OF SERVICE REPAIR CENTRES

Pres-Vac has developed a Service and Repair Centre network. These centres have the technical skills and marine experience to repair Pres-Vac equipment.

Our centres are conveniently located around the world in order to provide you with rapid access to spare parts and qualified service repair engineers.

The number of Service Repair Centres is steadily growing and new locations will appear in future.

Service and Repair Centre skills
Our service engineers have been trained and certified to overhaul Pres-Vac products according to our specifications. Pres-Vac distributes personal ID-cards to these engineers.

Quick supply of spare parts and kits
All Service Repair Centres have spare part kits for Pres-Vac products in stock ensuring supply of most parts within 48 hours.

To supplement the ordering of parts, we have developed a series of Maintenance Kits, that enable the crew to carry certain parts on board to cover the most common repairs.

● Pres-Vac Service Repair Centers ● Pres-Vac locations

About Pres-Vac Engineering

For more than 65 years Pres-Vac equipment has proven its worth under the most demanding conditions on sea worldwide – providing safe handling of hazardous cargo such as liquid fuels and chemicals. Our customers include all the leading tanker fleets, and our safety record is impeccable: No serious accidents.

Today, Pres-Vac pressure/vacuum valves are installed on more than 50 per cent of all tanker vessels globally, and Pres-Vac R&D continues setting the standard for safe venting equipment. Furthermore, Pres-Vac continues developing new products, so that the product range today includes P/V valves, conventional valves, PSA nitrogen generators, emission reduction systems, service systems and solutions for the offshore industry.

Pres-Vac equipment is designed and manufactured to last for lifetime of the vessel. However, our Aftersales team and global service network will assist you regarding wear parts and spare parts, whenever you need it.

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