



# Pressure-vacuum valve

with END OF LINE DEFLAGRATION FLAME ARRESTER

Mod. 197 EN-P 1"1/2, 2", 3", 4", 5" & 6"

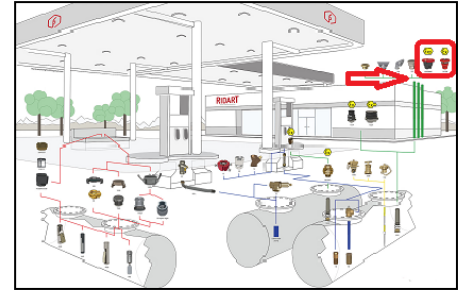


CE477 Ex G IIB3

## APPLICATION

Pressure Vacuum Valve with ribbon coil is a Protection System: deflagration end of line flame arrester in according with Directive 2014/34/EU and harmonized standard EN ISO 16852:2016.

- Regulate hydrocarbons or chemical storage tank pressure.
- Reduce evaporation for saving environment and product loss.
- Stage I vapor recovery compliant.
- The Flame Arrester protects tank from outside fire.
- Surface Protection System is for all ATEX zone (0, 1 and 2).
- Truck's vapor recovery shall be connected for fill storage tank.



## GAS & VAPOR COMPATIBILITY

Inflammable gases and vapours classification is necessary to correct use of flame arrester. UE-Type Examination Certificate EPT 19 ATEX 3333 X is for Explosion Group "IIB3" tested with Ethylene and compatible for all gas with MESG > 0.65 mm for example: Ammonia, Industrial methane, Blas-furnace gas, Carbon monoxide, Propane, Butane, Pentane, Esane, Eptane, Iso-octane, Decane, Benzene, Xilene, Cyclohexane, Acetone, Ethyl-methyl-ketone, Methyl acetate, Ethyl acetate, Normal propyl acetate, Normal butyl acetate, Amyl acetate, Chloroethylene, Methanol, Ethanol, Iso Butanol, Normal Butanol, Amyl alcohol and Ethyl nitrite. Use only for gas or vapor with MESG > 0.65 mm.

Marked "IIC" for Hydrogen and gas/vapor with MESG > 0.31 mm. Burning rating BC=b, t<sub>B</sub>T=1 min. Max operational temperature 60°C.

## CHEMICAL SUITABLE

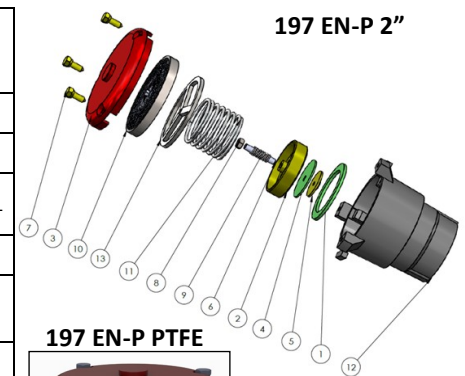
- Standard model for traditional fuel without additives.
- "PTFE" model for special fuel, non-aggressive solvents or chemical product.
- "SS" model for aggressive solvents, acids or bases.

PRODUCT	197 EN P-35 2"	197 SM-50 2"	197 VENT 2"	197-100 4"	197-150 6"
PRESSURE mbar	35	35	0	35	35
FLOW l/min (230 mbar)	825	140	2344	4320	≥8000
FLOW l/min (pump 8 bar)	1425	1125	3338	5810	≥8000

PRODUCT	197 EN P-35 2"	197 SM-50 2"	197 VENT 2"	197-100 4"	197-150 6"
VACUUM mbar	-2.5	-10	0	-5	-5
FLOW l/min (230 mbar)	1625	175	2344	3120	6140
FLOW l/min (pump 8 bar)	1950	338	3338	3830	≥8000

FOR 1"1/2 PIPELINE USE 197 EN-P 2" + ADAPTOR 2"x1"1/2  
 FOR 3" PIPELINE USE 197-100 + ADAPTOR 4"x3"  
 FOR 5" PIPELINE USE 197-150 + ADAPTOR 6"x5"

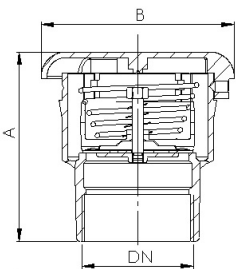
#	PART	197 EN-P 2"	197-100 197-150	197 VENT	197 EN-P PTFE	197 EN-P SS
1; 4	SEALS	VITON®		WITHOUT	TEFLON®	
2; 5	POPPETS	BRASS	ALUMINIUM	WITHOUT	STAINLESS STEEL	
3	CAP	ALUMINIUM			AL + PTFE COATING	STAINLESS STEEL
6; 7; 8	SCREWS & BOLTS	STAINLESS STEEL				
9; 11	SPRINGS	STAINLESS STEEL		WITHOUT SPRING	STAINLESS STEEL	
10	RIBBON COIL	STAINLESS STEEL				
12	BODY	ALUMINIUM			AL + PTFE COATING	STAINLESS STEEL
13	SUPPORT	STAINLESS STEEL				



197 EN-P PTFE



197 EN-P SS



## INSTALLATION

- Pressure vacuum vent is only for vertical installation at the end of vapor pipeline.
- For correct installation follow the Directives and product User Manual.
- Explosion Group is "IIB3" in according with EN ISO 16852 (MESG > 0.65 mm).
- Contact our technical department for custom application or maintenance by email to [quality@ridart.it](mailto:quality@ridart.it).
- Product Certification, Declaration of Conformity and User Manuals are available on [www.ridart.it/support](http://www.ridart.it/support).

## MAINTENANCE

- Periodically check the valve is necessary to remove possible dirty, nests or insects.
- Periodically check effectiveness and efficiency of spring for spring-loaded version.
- Always replace the product after fire or deflagration.

In case of tapering warranty expires and safety protection not guaranteed.

DN (NPT)	A (mm)	B (mm)
1.1/2" - 2"	100	105
3" - 4"	230	215
5" - 6"	380	330