



Pressure-vacuum valve

with END OF LINE DEFLAGRATION FLAME ARRESTER

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



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).
- Vapor recovery of Truck system shall be connected for fill storage tank.



CE 477 Ex G IIB3

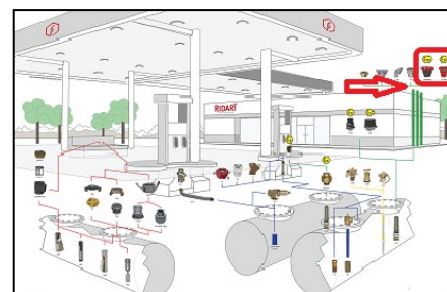
GAS & VAPOR COMPATIBILITY

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, Cloroethylene, 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 < 0.5 mm 197 EN-P H2.

Burning rating BC=b and $t_{BT}=1$ min and for "H2" model BC=c and $t_{BT}=0$ min.

Max operational temperature 60°C.



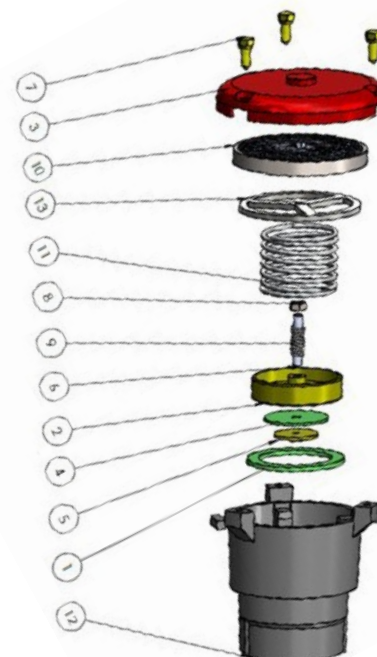
CHEMICAL SUITABILITY

- Standard model is for traditional fuel without additives.

ON REQUEST:

- "PTFE" coated model is for special fuel, non-aggressive solvents or chemical products.
- "SS" model (Stainless Steel) is for aggressive solvents, acids or bases.

#	PART	197 2" AL EN P	4" - 6" AL EN P	197 PTFE EN P	197 SS EN P
1;4	SEALS	VITON®		TEFLON®	
2;5	POPPETS	BRASS	ALUMINIUM	STAINLESS STEEL	
3	CAP	ALUMINIUM		AL + PTFE COATING	STAINLESS STEEL
6;7;8	SCREWS & BOLTS	STAINLESS STEEL			
9;11	SPRINGS	STAINLESS STEEL			
10	RIBBON COIL	STAINLESS STEEL			
12	BODY	ALUMINIUM		AL + PTFE COATING	STAINLESS STEEL
13	SUPPORT	STAINLESS STEEL			



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Product Certification, Declaration of Conformity, User Manual and Testing on: www.ridart.it/support

The Data and Images are not binding. We reserve the right to make changes without notice. Pressure & Flow Tolerances $\pm 20\%$.



Mod. 197 SM Aluminium



Mod. 197 Aluminium



Mod. 197 PTFE



Mod. 197 SS

PRODUCT	197 2" SM EN P	197 2" EN P	197 4" EN P	197 6" EN P
ALUMINIUM CODE	197 SM-50	197 EN P-35	197FA-100-35	197FA-150-35
PTFE CODE	-	197 EN P-35PTFE	197FP-100-35	197FP-150-35
SS CODE	-	197 EN P-35 SS	197FS-100-35	197FS-150-35
THREAD	2" NPT FEMALE	2" NPT FEMALE	4" NPT FEMALE	6" NPT FEMALE
PRESSURE mbar	35	35	35	35
TEST FLOW (Mbar 80 - Ø 72) l/min 9200	1500	1900	4600	> 9000
VACUUM mbar	-10	-2.5	-2,5	-2,5
TEST FLOW (Mbar 80 - Ø 72) l/min 9200	1200	1500	3700	> 6000

INSTALLATION

- Vent valve is only for vertical installation at the end of vapor pipeline.
- All Models are BSPP Threaded female
- For 1 1/2" pipeline 197 - 80 + adaptor 2"x1 1/2"
- For 3" pipeline use 197-100 + adaptor 4"x3"
- For 5" pipeline 197-150 + adaptor 6"x5"
- For correct installation follow the Directives and product User Manual.
- Explosion Group is "IIB3" in according with EN ISO 16852 (MESG > 0.65 mm).
- Explosion Group is "IIC" in according with EN ISO 16852 (MESG < 0.5 mm).
- Contact our technical department for custom application or maintenance by email to: quality@ridart.it.

MAINTENANCE

- Periodically check the valve is necessary to remove possible dirty, nests or insects.
- Always replace the product after fire or deflagration.
- In case of tampering warranty expires and safety protection is not guaranteed.

YOU MAY ALSO BE INTERESTED IN:

CODE	DESCRIPTION	
197VA-50-AL	Vent Valve with end of line flame arrester 2" aluminium	

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