Storagetech
STORAGE TANK EQUIPMENT
An Äager Brand

Pressure Vacuum Relief Valve with Flame Arrester

End-of-line, weight loaded, combination, atmospheric deflagration proof

Model 330

Product Description

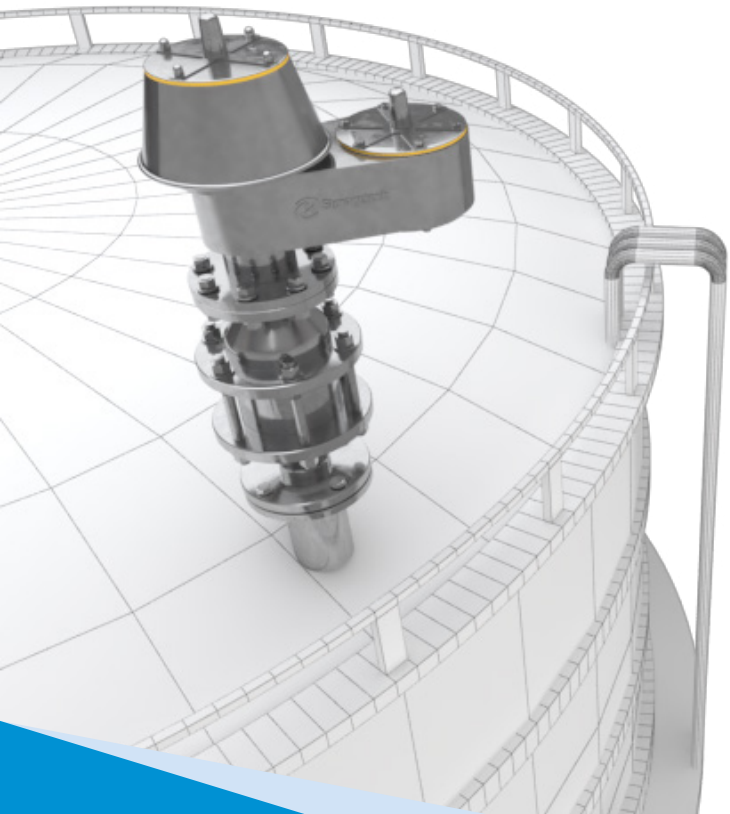
The assembly of this pressure relief valve with an eective ame arrester will enhance the safety of personnel, site location, and equipment, by reducing or eliminating the risk of ashover through the vent.

The Unit Will Comprise

Model 300	Flame Arrester - Vertical,in-line,deflagration
Model 100	Pressure Vacuum Relief Valve - Top mounted,end of line,weight

Additional Information

Data Sheet	Pressure Relief, Vacuum Relief, and Pressure-Vacuum Relief Valves
Data Sheet	Model 300 In-line Deagration Flame Arrester
Data Sheet	Model 100 Pressure-vacuum Relief Valve (weight-loaded; discharge to atmosphere)



StorageTech provides the high quality and reliable solutions for your needs with 40 years of experience.

Your investments will be much safer with Storagetech ™ Flame Arrester solutions, which are completely produced in accordance with international norms.

Standard Sizes	1” to 12” DN25 to DN300
Body / Flanges	1- Carbon steel 2- Stainless steel AISI 316 –L or 304-L 3- Aluminium 4- Customer Specification
Flange Drilling	API Class 150, PN16, and Special
Flame Element	Stainless steel AISI 316 –L or 304-L
O-ring Seal	Nitrile, Special
Screen	Stainless steel
Weather Hood	Carbon steel, Stainless steel or Aluminium
Paint Finish	1- Powder Coating, Colour RAL 9006 2- Epoxy Paint, Colour RAL 9006 3- Customer Specification
ATEX Cert	Ex II 1/2 G IIA

Äager

Manufacturing Materials

Housing	Cell	Gass Group
Carbon Steel	304 S.S.	IIA, IIB*
304 S.S.	316 S.S.	
316 S.S.		
Aluminum		

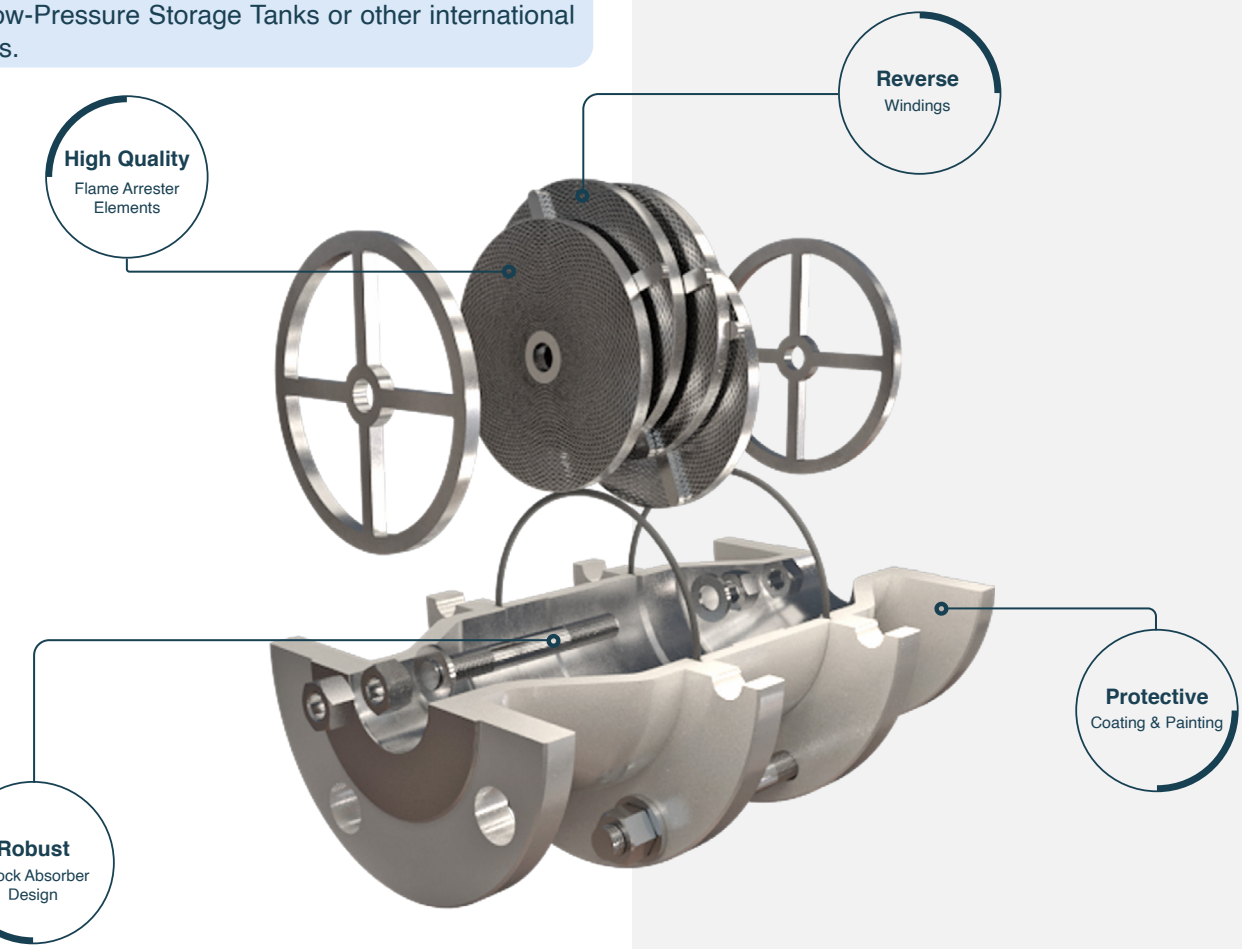
Product Benefits

StorageTech™ Flame Arrester Model 330 provides safety. It blocks the flame and does not allow flame travel through a pipeline or any in out-let. Protect s environment. Flame arrester prevents your facility against fire that is caused by explosions. Controls the intemal pressure of a storage tank or a container.

Design & Manufacturing Specifications

The size of the vent should be calculated in accordance with API Standard 2000 (ISO 28300) - Venting Atmospheric and Low-Pressure Storage Tanks or other international standards.

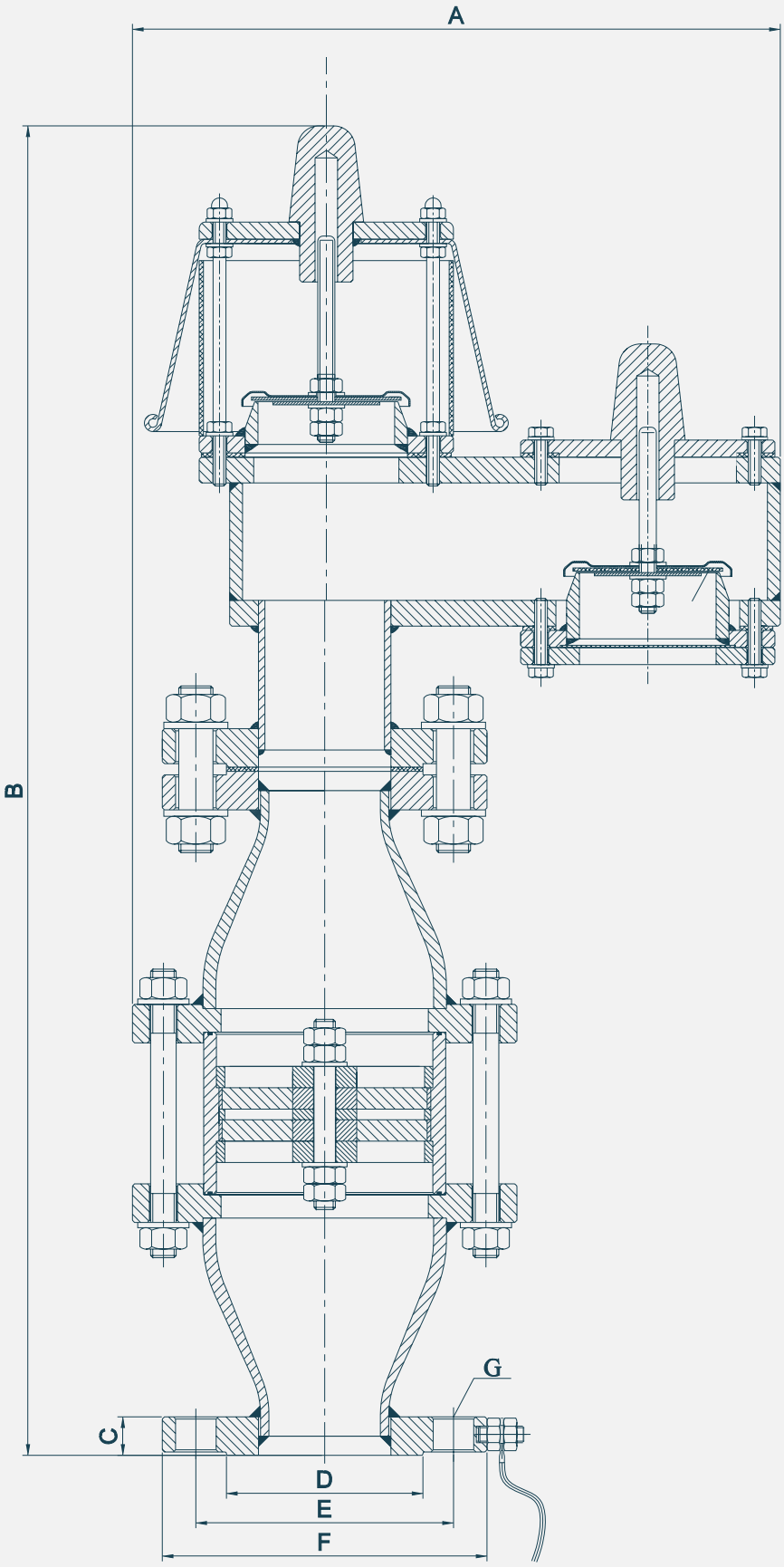
Certificates & Standards



Key Features

- StorageTech™ PW Model 330 intemal materials are AISI 316 or 304 stainless steel.
- Easy to clean internal materials.
- Easy to install. You do not need a special tool or experience to install the StorageTech™ Flame Arrester with pressure vacuum relief valve.
- StorageTech™ PVV Model 100 and model 300 Flame Arrester comes with the paint color you choose.
- Standard manufacturing comes with API 150 class flange; however other flange types are available on request.
- Also available with cap that is used to protect the ame arrester against dust and rain.

Technical Drawing



Flow Capacity Tables

Set Pressure (Ps)	Air Flow Capacity at 100% Overpressure 1000 Normal Cubic Meters per Hour at 0°C						
mm WC	2"	3"	4"	6"	8"	10"	12"
22.0	0.09	0.18	0.32	0.64	1.04	1.65	1.91
50.0	0.14	0.30	0.55	1.13	1.82	2.87	3.53
75.0	0.18	0.39	0.70	1.46	2.35	3.70	4.62
100	0.21	0.46	0.83	1.74	2.80	4.40	5.53
150	0.26	0.58	1.06	2.21	3.55	5.59	7.05
200	0.31	0.69	1.25	2.61	4.19	6.59	8.35
250	0.35	0.78	1.42	2.97	4.76	7.48	9.50
300	0.39	0.87	1.57	3.29	5.27	8.30	10.5
375	0.44	0.98	1.78	3.73	5.98	9.41	12.0
500	0.51	1.15	2.09	4.39	7.02	11.0	14.1
625	0.58	1.30	2.36	4.97	7.96	12.5	15.9
750	0.64	1.44	2.62	5.50	8.80	13.8	17.6

Weight & Dimensions

SIZE		A	B	C	D		E		F		G		TOTAL WEIGHT (kg)				
NPS	DN				ANSI 150# RF	PN 16	ANSI 150# RF	PN 16	ANSI 150# RF	PN 16	ANSI 150# RF	PN 16	WELDED		CASTING		
													CS	SS	AL	CS	SS
2"	50	310	607	18	92	102	120.6	125	152	165	Ø19x4	Ø18x4	22-33	25-33	9-13	29-39	29-39
3"	80	350	760	18	127	138	152.4	160	190	200	Ø19x4	Ø18x8	48-58	48-58	20-26	58-70	58-70
4"	100	425	881	18	157.2	158	190.5	180	229	220	Ø19x8	Ø18x8	68-78	68-78	34-42	81-95	81-95
6"	150	460	1132	18	216	212	241.3	240	279	285	Ø22x8	Ø22x8	104-118	104-118	53-65	129-150	129-150
8"	200	490	1600	18	270	268	298.4	295	343	340	Ø22x8	Ø22x12	185-205	185-215	82-97	210-250	210-250
10"	250	550	1904	18	324	320	362	355	406	405	Ø25.4x12	Ø26x12	255-290	255-300	150-190	335-395	335-395
12"	300	550	1500	18	381	378	431.8	410	483	460	Ø25.4x12	Ø26x12	400-455	400-475	260-310	540-620	540-620

Pressure Vacuum Vent

Housing	Seal/Pallet	Pallet Seal	Hardware	Weight	Gaskets
Cast Aluminum	Aluminum	FEP Teflon	304 S.S.	Carbon Steel	Compressed Fiber
Carbon Steel	304 S.S.		316 S.S.	304 S.S.	
304 S.S.	316 S.S.		18	316 S.S.	
316 S.S.			18	Lead	

Product Recommendations

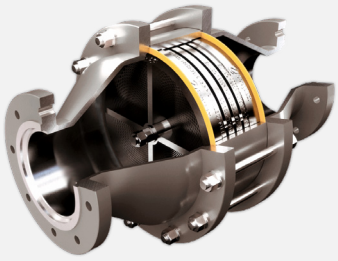
Storagetech™ manufactures storage tank equipment, such as flame arresters, breather valves, gauge hatches, floating roofs, and floating suction pipe.

Flame Arrestor

End-Of-Line, With Automatic Opening Hood, Deflagration

Model: 312

Storagetech™ Flame Arrestors (End-of-line, with Automatic Opening Hood) are passive devices that prevent the propagation of a flame or fire from entering into an opening in a pipeline or vessel discharging flammable vapor. As different from model 310, Model 312 end of line flame arrestor's weather hood is designed to react fire instantly tanks to it's fusible link, which is melted during the fire and let the weather hood release the gas/fire to the atmosphere.

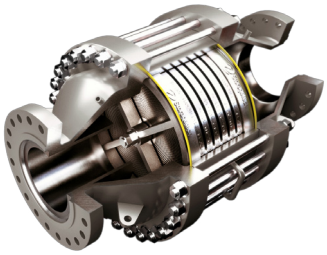


Flame Arrestor

Vertical, In-Line, Deflagration

Model: 300

Storagetech™'s Model 300 Vertical In-line Deflagation Flame Arrestor (also called flame arrestor or fire arrestor) is intended for pipeline installation close to the source of any potential ignition source by minimising flame speed and the development of an explosive pressure.

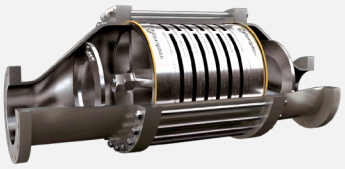


Flame Arrestor

Vertical, In-Line, Detonation

Model: 320

Storagetech™'s Model 320 In-line Detonation Flame Arrestor (also called flame arrestor or fire arrestor) is designed for installation in gas pipelines. Detonation occurs when a flame travelling through the pipeline reaches supersonic velocities, usually as a result of the pipeline configuration or pipeline surface roughness. Changes in gas density and pressure causes the flame velocity to metamorphose from subsonic to supersonic.



Flame Arrestor

Horizontal, In-Line, Detonation

Model: 321

Storagetech™'s Model 321 In-line Detonation Flame Arrestor (also called flame arrestor or fire arrestor) is designed for installation in gas pipelines. Detonation occurs when a flame travelling through the pipeline reaches supersonic velocities, usually as a result of the pipeline configuration or pipeline surface roughness. Changes in gas density and pressure causes the flame velocity to metamorphose from subsonic to supersonic.

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data sheet series

PVRV with FA - E.O.L., W.L., comb., atmospheric def. proof

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storagetech.de

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YouTube Video
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