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INDUSTRIAL VALVES

BREATHER VALVE WITH FLAME ARRESTOR

MODEL: KVFA



THE DESCRIPTION OF PRODUCT

The model KVFA - Breather valve with flame arrestor which is the combination of breather valve cum flame arrestor, also called the pressure vacuum relief valve with flame arrestor that is installed on top of tanks, which provides protection against positive or vacuum overpressure and prevents air intake, evaporative losses of product and helps contain odorous and potentially explosive vapors.

Type: End of line, Weight Loaded Pressure Vacuum Relief Valve is designed to protect the tank from excessive internal pressure during operation.

THE WORKING PRINCIPLE

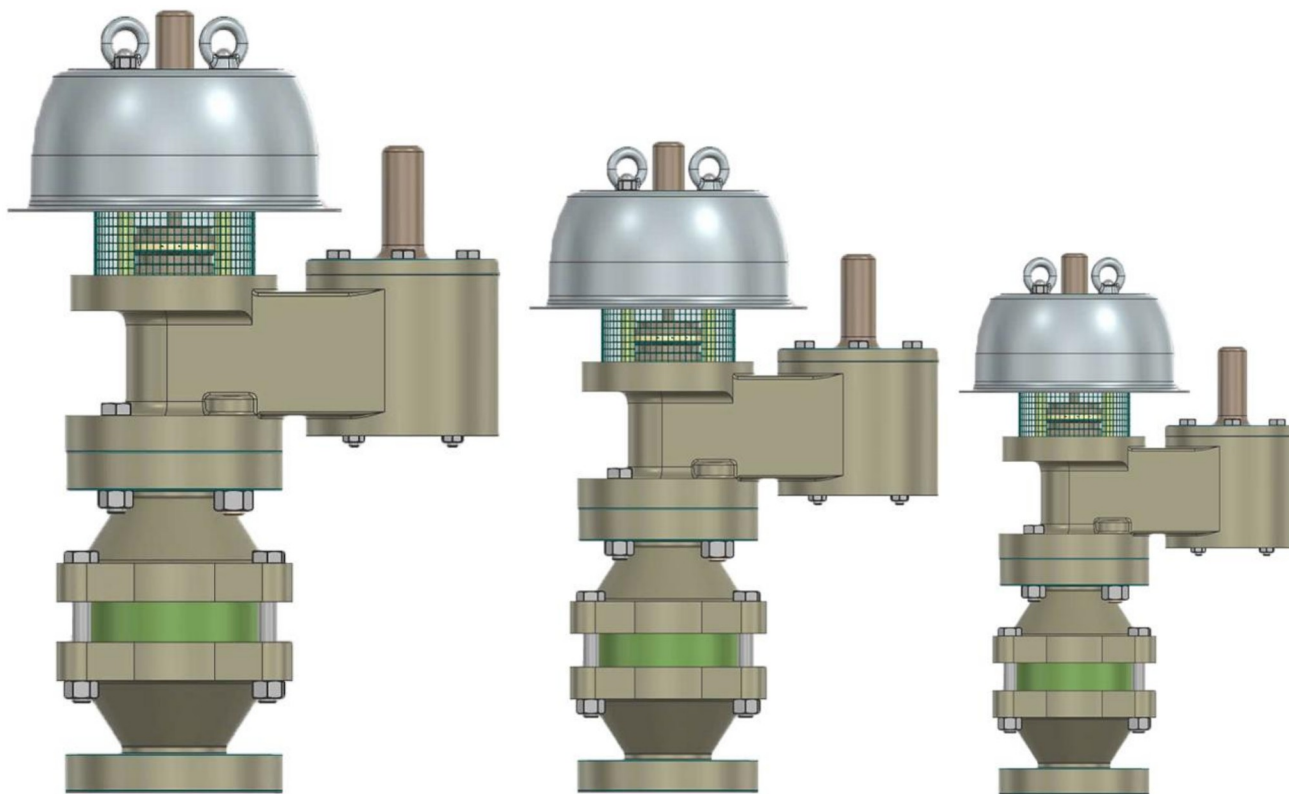
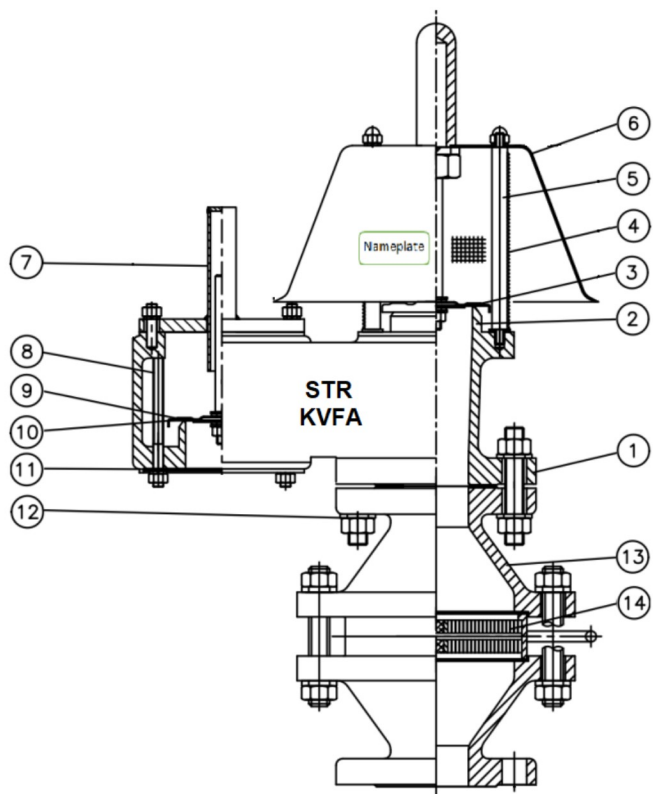
When internal pressure in the tank goes up, due to product filling or vapor development, the set pressure will be increased, accordingly, the pressure disc will be opened and discharge the gas to atmosphere. The set pressure can be arranged according to storage tank requirements and the breather valve will be reset when internal pressure returns to below set pressure. The vacuum disc is similarly maintained in the closed position.

When internal pressure in the tank reduces, due to emptying vacuum conditions occurs, the balance between the tank pressure and the external atmospheric pressure change. Accordingly, the set pressure of the unit is reached, the vacuum disc opens to vacuum air content and rebalance the internal pressure, and so the breather valve activated as close as to set pressures.

KEY CONSTRUCTION AND MODELS

Standard size	: Inch: 2" - 12" DN: DN50 - DN300
Models	: KVFAA (Cast aluminum) KVFAF (WCB - Cast steel) KVFAF (Stainless steel)
Elements	: SS316/ SS316L
Internal	: SS304/ SS316
Design std	: API2000, EN12874, BS7244
Flame cell	: Group IIA (standard) or IIB/IIC
Set pressure	: Max pressure 700mmW.C/ max vacuum -400mmW.C for weight loaded valves
End connecion	: Flange according to ANSI150FF/150RF, (on request for JIS - 10K, DIN, ...)
Paint	: Grey epoxy on request

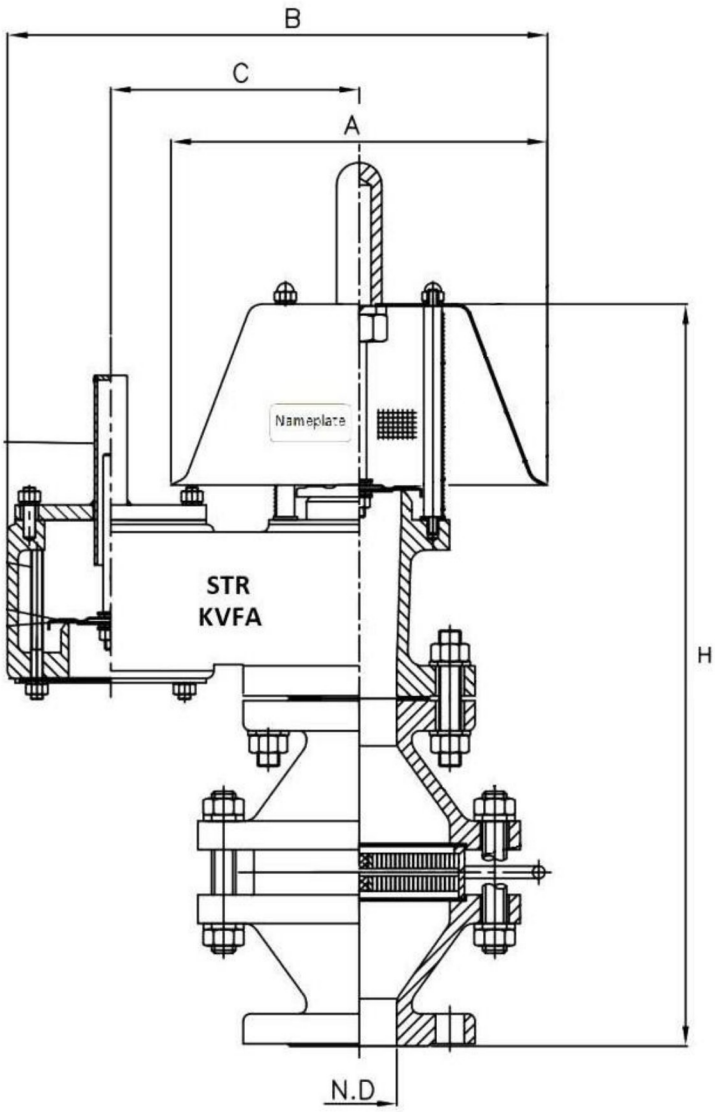
DRAWING AND PARTNAMES



Part names	No.	Aluminum	WCB	SS304	SS316
Breather valve body	1	B26 - 319. F	A216-WCB	CF8	CF8M
Pressure seat	2	B26 - 319. F	A216-WCB	CF8	CF8M
Pressure disc	3	SS304	SS304	SS304	SS316
Protection screen	4	SS304	SS304	SS304	SS316
Pressure guide stub	5	SS304	SS304	SS304	SS316
Cover hood	6	SS304	SS304	SS304	SS316
Vacuum cover	7	B26 - 319. F	A216-WCB	SS304	SS316
Vacuum guide stub	8	SS304	SS304	SS304	SS316
Vacuum disc	9	SS304	SS304	SS304	SS316
Diaphragm	10	PEF/PTFE	PEF/PTFE	PEF/PTFE	PEF/PTFE
Vacuum Screen	11	SS304	SS304	SS304	SS316
Stub Bolt/nut	12	SS304	SS304	SS304	SS316
Flame arrestor body	13	B26 - 319. F	A216-WCB	CF8	CF8M
Element	14	SS316	SS316	SS316	SS316L



DIMENSIONS



Size	2"	3"	4"	6'	8"	10"	12"
DN	50	80	100	150	200	250	300
A	253	328	350	442	500	558	620
B	368	462	498	628	750	880	978
C	164	205	230	284	348	405	544
H	510	568	588	738	820	882	1016