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BREATHER VALVE

MODEL: TBV



THE DECRPTION OF PRODUCT

The model TBV - Breather valve with one pressure disc and another vacuum disc, also called the pressure vacuum relief valve 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

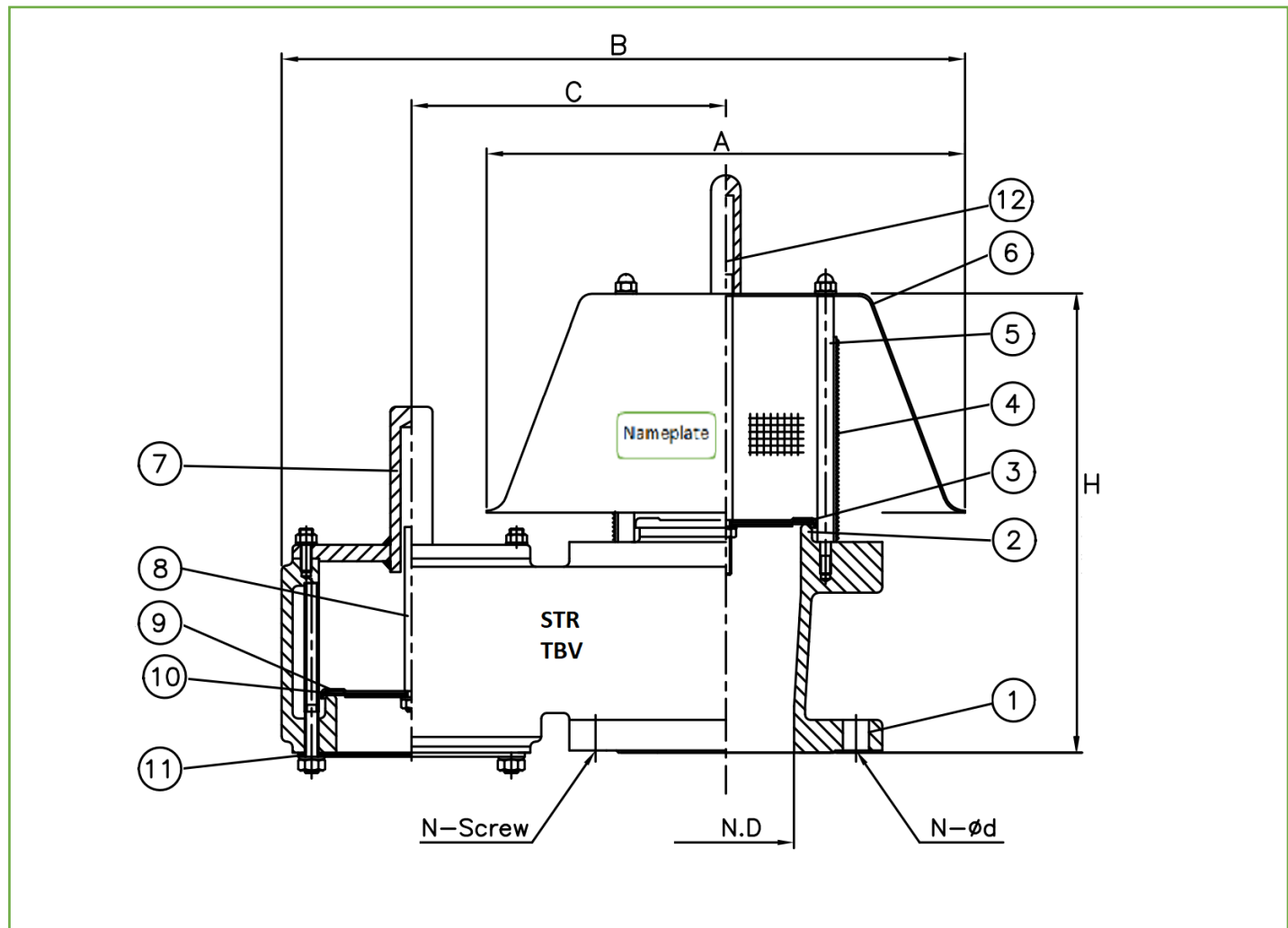
When internal pressure in the tank goes up, due to product filling or vapor development, the set pressure will be increased, accordingly, the pressure disc will be opened and discharge the gas to atmosphere. The set pressure can be arranged according to storage tank requirements and the breather valve 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	:TBVA (Cast aluminum)	TBVC (WCB - Cast steel) TBVS (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, JIS - 10K, DIN,...	
Paint	:Grey epoxy on request	

THE DETAILED DRAWING AND DIMENSION PARTNAMES



DIMENSIONS

Size	2"	3"	4"	6'	8"	10"	12"
DN	50	80	100	150	200	250	300
A	250	294	324	442	476	544	622
B	358	446	485	627	742	861	978
C	164	206	232	282	347	405	464
H	270	304	328	400	448	508	556

Notes: UOM: mm, Dimensions (A,B,C,H) can be the allowable tolerance

NUMNERS 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 stem	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
Pressure stem	12	SS304	SS304	SS304	SS316

