

- High flow capacity at low differential pressure
- Snap Action requires no over pressure
- Vacuum settings as low as 0.4" w.c.
- Static pressure to 1.5 psig (MAWP)
- Light weight / High strength design

The Shand & Jurs Model 94116 Snap Action Vacuum Breaker

The Shand & Jurs MODEL 94116 42" Snap Action Vacuum Breaker permits high capacity atmospheric air flow at low differential pressures to be drawn into the liquid storage tank or pressure vessel when the internal vacuum pressure exceeds the vent setting.

The vent uses a magnetic latch system to hold the seal closed tightly at vacuum levels lower than the setting and at positive pressures. The set point is achieved by the magnetic force of a permanent magnet that attracts a ferrous plate attached to the pallet.

When the tank vacuum pressure reaches the set point, it overcomes the magnetic force and allows the pallet to instantly swing open, providing for 100% opening at set pressure with no overpressure required.

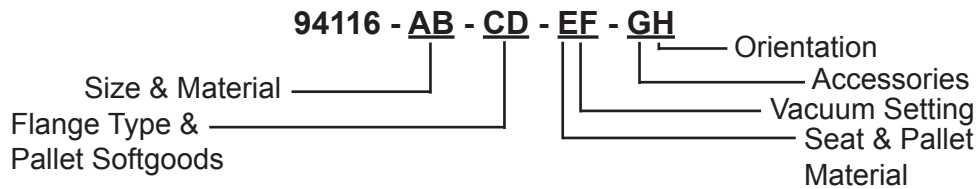
This feature provides greater flow capacities than conventional weight loaded vents.

The 94116 is designed for operation at static pressures up to 1.5 PSIG. Vacuum settings are available from .4 to 1.5 inches water column. They are designed for replacement of a rupture disc or in situations where self reclosing, high vacuum capacity is required.

The design incorporates a body that is self-draining and uses a vertical hinged pallet. These features prevent collection of condensates on the seating surface, which can lead to improper functioning of the vacuum vent.

MODEL NUMBER SELECTION:

The model number will consist of a base number 94116 followed by eight values which represent the options listed in the following tables.



ORDERING INFORMATION

Specify:

1. Model 94116 Snap Action Vacuum Breaker
2. Size and Body Material
3. Flange Type
4. Softgoods
5. Seat & Pallet Material
6. Vacuum Setting
7. Accessories
8. Orientation



TABLE I - (AB) SIZE/MATERIAL

TABLE I OPTION #	SIZE	BODY MATERIAL
12	16"	ALUM.
22	16"	316 SS
14	20"	ALUM.
24	20"	316 SS
15	24"	ALUM.
25	24"	316 SS
16	30"	ALUM.
26	30"	316 SS
17	36"	ALUM.
27	36"	316 SS
18	42"	ALUM.
28	42"	316 SS

STANDARD MATERIALS OF CONSTRUCTION:

DESCRIPTION	Aluminum	316 S.S.
Body:	Aluminum	316 S.S.
Swing Arm:	Aluminum	316 S.S.
Pallet:	Aluminum	316 S.S.
Diaphragm:	Buna N	Buna N
Spacer:	Nitrile Fiber	Nitrile Fiber
Shaft:	Stainless Steel	Stainless Steel
Seat:	Aluminum	316 S.S.
Hood:	Aluminum	316 S.S.
Screen:	Galvanized Steel	316 S.S.
Internal Hardware:	Stainless Steel	316 S.S.
External Hardware:	Zinc Plated Steel	316 S.S.
Process Stud:	Zinc Plated Steel	316 S.S.
Counterweights:	Lead	Lead
Misc Hardware:	Stainless Steel and Bronze	Stainless Steel and Bronze

TABLE (C) - FLANGE TYPE

OPTION #	FLANGE TYPE*
0	FF ANSI
1	FF API 650
2	FF API 605

* Bolt holes match pattern

TABLE (D) - PALLET SOFTGOODS

OPTION #	SEAL TYPE
0	BUNA / FIBER

TABLE (E) - SEAT & PALLET MATERIAL

OPTION #	SEAT	PALLET
0	STD	STD
1	316SS	
2	Teflon Coated SS	
A	STD	316SS
B	316SS	
C	Teflon Coated SS	

Standard seat and pallet material same as body.

TABLE (F) - VACUUM SETTING

OPTION #	DESCRIPTION	MATERIAL
0	.4" to .6" w.c.	Lead
1	>.6" to 1.0" w.c.	Lead
2	>1.0" to 1.5" w.c.	Lead

TABLE (G) - ACCESSORIES

OPTION	DESCRIPTION
0	None
1	Open Limit Switch (SPDT-XP)

XP = Explosion Proof

TABLE (H) - ORIENTATION

OPTION	DESCRIPTION
0	Left Side Access Panel
1	Right Side Access Panel