



- All-weather valve for all material or service
- Aluminum, cast iron, steel or stainless steel
- Pressure range between 1 and 15 PSI
- Available in sizes: 2" , 3" , 4" ,6" , 8" , 10" & 12"

**The Shand & Jurs Model 94140 Spring Loaded Pressure Relief Vent (Spring Closed)**

The Shand & Jurs Model 94140 Spring Loaded Pressure Relief Vent reduces excessive venting of product in liquid storage tanks. Available for open or closed vent systems, this vent provides pressure relief by either venting vapor into the atmosphere or piping emissions in a closed loop system.

Available in 2"- 12" sizes, this vent is all weather for all materials and services. Pressure ranges are from 1-15 psi for 2"-10" sizes and 1-10 psi for 12" sizes. Flange connections match ANSI 150 lb. raised face or flat face for cast iron, steel and stainless steel construction. Aluminum construction comes in ANSI 150 lb. flat face flange only. Open vent body and seat material is the same except for steel which has a SS overlay seat. Closed vent model can either have Aluminum or SS seat.

An Expanda Seal is available on the pressure pallet to assure minimal leakage up to 95% of set pressure.

**SPECIFICATIONS:**

Standard Pressure  
Setting Range: ..... 1-15 psi for 2"-10" sizes  
1-10 psi for 12" size

Temperature Range: Body and Seal  
Options for Process Temperature Ranges of  
-70°F to 500°F

Flanges: ..... Matches valve size 150 lb.  
ANSI compatible. DIN and  
JIS 10K sizes available.

\*Aluminum available in FF only.

**MATERIALS OF CONSTRUCTION:**

Body: ..... Aluminum, Iron, Steel,  
316SS available

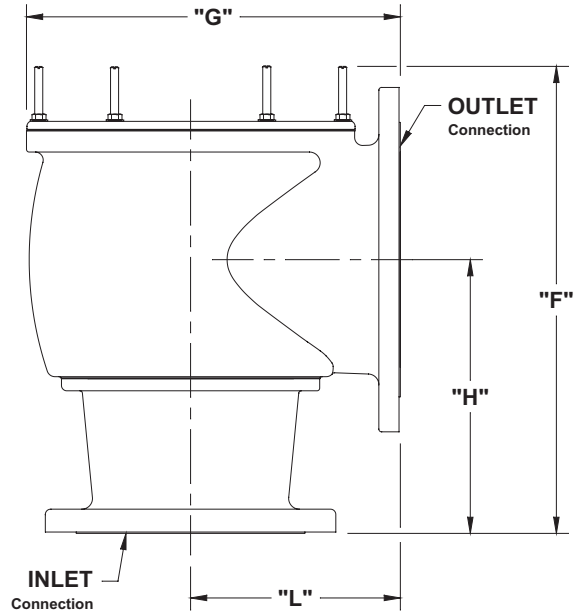
Hood: ..... 316SS for 2", 3", 4", 6" & 8"  
Aluminum for 10" & 12"

Seat: ..... Aluminum, Stainless Steel

Diaphragm: ..... FEP Teflon

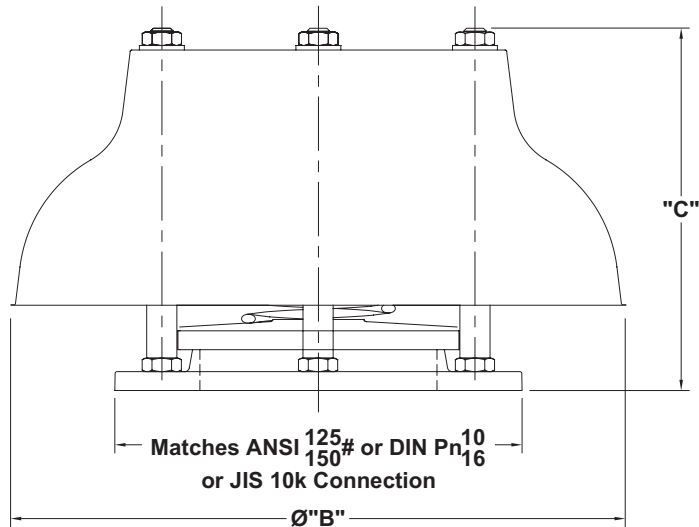
## CLOSED VENT OUTLINE DIMENSIONS

Valve Size	"F"	"H"	"L"
2" X 2"	10 3/8	5 1/32	4 1/4
2" X 3"	10 3/8	5 1/32	4 1/4
3" X 3"	11 1/8	6 1/8	4 1/4
3" X 4"	12 1/8	5 31/32	5 1/4
4" X 4"	13 11/16	7 1/4	5 1/4
4" X 6"	14 1/8	7 1/32	5 15/16
6" X 6"	15 7/16	8 7/8	5 15/16
6" X 8"	17 1/4	10 11/32	8 1/4
8" X 8"	19 1/8	12 3/16	8 1/4
8" X 10"	20 7/8	12 23/32	9 3/4
10" X 10"	22 13/16	14 5/8	9 3/4
10" X 12"	24 5/8	14 29/32	11 19/32
12" X 12"	26 7/16	16 11/16	11 19/32
12" X 14"	27 5/8	16 29/32	12 13/16



## OPEN VENT OUTLINE DIMENSIONS

Valve Size	Diameter "B"	"C"
2"	12 7/8	7 5/8
3"	13 9/16	7 7/8
4"	15 15/16	9 1/8
6"	18 5/8	9 1/8
8"	18 5/8	12 1/8
10"	25 9/16	16 1/2
12"	29 7/8	19 5/8



All designs subject to change. Certified dimensions and specifications available upon request

**MODEL NUMBER SELECTION:**

The model number will consist of a base number 94140 followed by four 2 digit numbers which represent the options listed in the following tables.



**ORDERING INFORMATION**

Specify:

1. Model 94140 Spring Loaded Pressure Only Relief Vent
2. Size, Body Material, and Service
3. Type of Vent
4. Pressure Setting
5. Seal Type
6. To Specify CE for Ordinary EU Locations use Table G2
7. ATEX Certification for Group IIB, IIA EU Locations, use Table G1



**TABLE II (CD) - PRESSURE SETTING (PSI)**

OPTION #	RANGE FROM	RANGE TO
01	1	2
02	2.1	3
03	3.1	4
04	4.1	5
05	5.1	6
06	6.1	7
07	7.1	8
08	8.1	9
09	9.1	10
10	10.1	11
11	11.1	12
12	12.1	13
13	13.1	14
14	14.1	15

ATEX and CE Models are Limited to Options 01-06

**TABLE IIIa (E) - FLANGE TYPE**

OPTION #	DESCRIPTION
0	FF ANSI
1	RF ANSI
2	FF DIN 2633
3	RF DIN 2633
4	FF JIS 10K
5	RF JIS 10K

**TABLE IIIb (F) - SEAL MATERIAL**

OPTION #	MATERIAL
0	FEP
1	PTFE
2	BUNA
3	VITON

**TABLE IV- (GH) SEAL TYPE**

OPTION #	TYPE
00	STD.
01	EXPANDA-SEAL
*10	ATEX Certified
*11	ATEX Certified Expanda-Seal
20	CE / STD. Seal
21	CE / Expanda-Sea

\* Pallet, Side Guides, Nuts, Bolts, Screens and Spring are 316 SS

**TABLE I (AB) - SIZE, MATERIALS & CONFIGURATION**

FLAT FACED OPTION #	RAISED FACED OPTION #	SIZE	DESCRIPTION		VENT TYPE
			BODY	TRIM	
12	N/A	2"	ALUM	ALUM	OPEN
22	N/A	2"	ALUM	ALUM	CLOSED
32	A2	2"	CI	SS	OPEN
42	52	2"	CI	SS	CLOSED
B2	C2	2"	CS	SS	OPEN
62	72	2"	CS	SS	CLOSED
D2	E2	2"	SS	SS	OPEN
82	92	2"	SS	SS	CLOSED
14	N/A	3"	ALUM	ALUM	OPEN
24	N/A	3"	ALUM	ALUM	CLOSED
34	A4	3"	CI	SS	OPEN
44	54	3"	CI	SS	CLOSED
B4	C4	3"	CS	SS	OPEN
64	74	3"	CS	SS	CLOSED
D4	E4	3"	SS	SS	OPEN
84	94	3"	SS	SS	CLOSED
15	N/A	4"	ALUM	ALUM	OPEN
25	N/A	4"	ALUM	ALUM	CLOSED
35	A5	4"	CI	SS	OPEN
45	55	4"	CI	SS	CLOSED
B5	C5	4"	CS	SS	OPEN
65	75	4"	CS	SS	CLOSED
D5	E5	4"	SS	SS	OPEN
85	95	4"	SS	SS	CLOSED
16	N/A	6"	ALUM	ALUM	OPEN
26	N/A	6"	ALUM	ALUM	CLOSED
36	A6	6"	CI	SS	OPEN
46	56	6"	CI	SS	CLOSED
B6	C6	6"	CS	SS	OPEN
66	76	6"	CS	SS	CLOSED
D6	E6	6"	SS	SS	OPEN
86	96	6"	SS	SS	CLOSED
17	N/A	8"	ALUM	ALUM	OPEN
27	N/A	8"	ALUM	ALUM	CLOSED
37	A7	8"	CI	SS	OPEN
47	57	8"	CI	SS	CLOSED
B7	C7	8"	CS	SS	OPEN
67	77	8"	CS	SS	CLOSED
D7	E7	8"	SS	SS	OPEN
87	97	8"	SS	SS	CLOSED
18	N/A	10"	ALUM	ALUM	OPEN
28	N/A	10"	ALUM	ALUM	CLOSED
38	A8	10"	CI	SS	OPEN
48	58	10"	CI	SS	CLOSED
B8	C8	10"	CS	SS	OPEN
68	78	10"	CS	SS	CLOSED
D8	E8	10"	SS	SS	OPEN
88	98	10"	SS	SS	CLOSED
19	N/A	12"	ALUM	ALUM	OPEN
29	N/A	12"	ALUM	ALUM	CLOSED
39	A9	12"	CI	SS	OPEN
49	59	12"	CI	SS	CLOSED
B9	C9	12"	CS	SS	OPEN
69	79	12"	CS	SS	CLOSED
D9	E9	12"	SS	SS	OPEN
89	99	12"	SS	SS	CLOSED