

94210

Emergency Vent & Manhole Cover (Hinged)

SHAND & JURS

94210 Emergency Vent & Manhole Cover (Hinged)

The Shand & Jurs 94210 Emergency Vent and Manhole Cover is an economical solution to emergency venting requirements where intermediate pressure settings are required.

The design of Model 94210 employs a flexible diaphragm affording a tight seal between the pallet and the corrosion resistant seat below set pressure. This also assures low leakage. The diaphragm is intended for normal ambient temperature storage. Special diaphragms for tanks storing products other than oils and gasoline are available.

When set pressure is achieved, the pallet starts to lift. Flow efficiency rises rapidly to approximately 60% of a perfect orifice at 40% excess of the set pressure. At higher overpressure the flow efficiency approximates 75%.

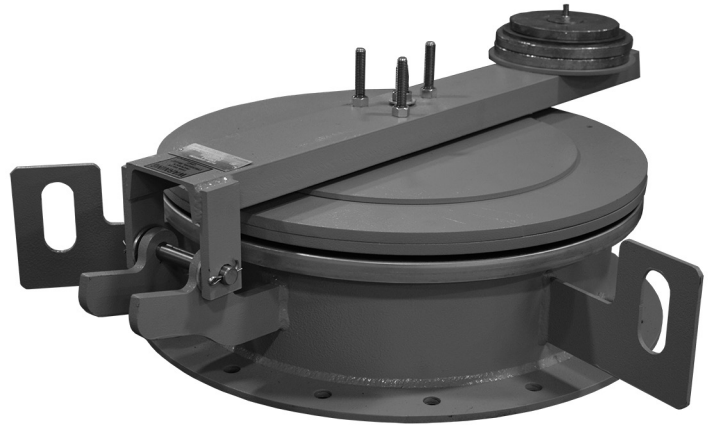
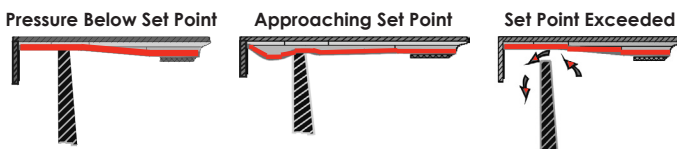
For tank venting or examination, the entire hinged cover may be lifted open in a matter of seconds, offering clear passage through the unobstructed opening. Since no gasket replacement or unbolting is necessary, this vent eliminates the expensive manpower needed to put conventional emergency vents back in operation.

Pallet construction permits a wide variety of pressure settings. See specifications for various pressure settings of all vent sizes.

Standard design is available in 10", 16", 18", 20", 24", 30" and 36" sizes. The Standard Mounting Flange is 150lb. ANSI Flat Face. The body has three lifting ears that are used to raise and position the unit. This helps to protect the internal diaphragm during installation. Lifting ears are not available on 10" and 16" sizes. The 20" and 24" vents can be provided with flat face flanges to fit API 650 Roof Manholes. Special construction types are also available.

Expanda-Seal

Shand & Jurs "Expanda-Seal" option is available on all pressure pallet assemblies. This feature significantly reduces leakage. The ballooning effect of the Teflon diaphragm effectively seals the valve.



Features

- Easy installation and handling for inspection
- Tank examination requires no gasket replacement or unbolting
- 10," 16", 18", 20", 24", 30" and 36" base designed to fit 150 lb. ANSI flange
- 20" & 24" flange sizes also designed to fit API 650 flange
- EN1092 sizes available
- Materials of construction include Aluminum, Steel & 316 Stainless Steel
- Limit Switches available

SHAND & JURS

Specifications

Size		10"	16"	18"	20"	24"	10"	16"	18"	20"	24"	30"	36"
Type		Low Setting					High Setting					C.F.	C.F.
Pressure Settings	Standard	1.1 oz/in ²	1.3 oz/in ²			1.5 oz/in ²	> 4.0 oz/in ²					C.F.	C.F.
	Minimum	1.1 oz/in ²	1.3 oz/in ²			1.5 oz/in ²	> 4.0 oz/in ²					C.F.	C.F.
	Maximum	4.0 oz/in ²					20 oz/in ²			16 oz/in ²		C.F.	C.F.

Standard Materials of Construction

Base	Aluminum	Steel	316 Stainless Steel
Pallet	Aluminum	316 Stainless Steel	316 Stainless Steel
Seat	Aluminum	Stainless Steel Inlay	316 Stainless Steel
Load Weight(s)	Steel / Lead	Steel / Lead	Steel / Lead
Fastners	Zinc Plated Steel	Zinc Plated Steel	316 Stainless Steel
Hinge Arm	Steel	Steel	316 Stainless Steel
Hinge Pin	Stainless Steel	Stainless Steel	Stainless Steel
Diaphragm	FEP Teflon	FEP Teflon	FEP Teflon
Back-up Disk	N-8090	N-8090	N-8090

Alternate materials of construction available. Consult Factory.

Dimensions

Vent Size	Connection Matching Size	"A"	"B"	"C"	Diameter "D"	Diameter "E"	Diameter "F"	Diameter "G"	"H"	"K"
10"	10" ANSI Class 150	20 13/16	11 13/16	10	14 1/4	16	10	1	12	10 1/16
16"	16" ANSI Class 150	28 9/16	16 1/2	10	21 1/4	23 1/2	16	1 1/8	16	14
18"	18" ANSI Class 150	37 1/16	20 13/16	12 1/8	22 3/4	25	18	1 1/4	16	17 15/16
20"	20" API Roof Manhole	37 1/16	20 13/16	12 1/8	23 1/2	26	20	3/4	16	17 15/16
20"	20" ANSI Class 150	37 1/16	20 13/16	12 1/8	25	27 1/2	20	1 1/4	20	17 15/16
24"	24" API Roof Manhole	41 5/16	22 13/16	12 1/4	27 1/2	30	24	3/4	20	20 1/16
24"	24" ANSI Class 150	41 5/16	22 13/16	12 1/4	29 1/2	32	24	1 3/8	20	20 1/16
30"	30" ANSI Class 150	50 1/8	26	18 1/4	36	38 3/4	30	1 3/8	28	23 3/4
36"	36" ANSI Class 150	71 7/16	31 3/16	13 3/4	42 3/4	46	36	1 5/8	32	27 9/16

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