

94069

FRP Gauge Hatch

The Shand & Jurs® Model 94069 provides controlled access for sampling and manual gauging on atmospheric storage tanks handling corrosive vapors. Each opening temporarily bypasses conservation vent control; the hatch must reseal predictably to restore normal tank breathing and vapor containment after access.

A weighted self-closing cover with a PTFE air-cushion seal returns the tank to a closed condition following gauging, limiting vapor escape, and preventing continuous leakage. The fiberglass reinforced plastic body, manufactured from Derakane 470 vinyl ester resin as standard, maintains sealing geometry in aggressive chemical environments where metallic hatches may degrade.

The hatch also provides supplemental pressure relief during abnormal pressure rise while remaining normally closed during standard operation. Available in 4", 6", and 8" sizes with flat-face flange mounting for atmospheric storage requiring corrosion resistance and repeatable sealing behavior.



Key Features

FRP body construction Maintains sealing surfaces in corrosive vapor environments.	PTFE air-cushion seal Returns tank to vapor-tight condition after access events.	Weighted self-closing cover Automatically reseats after gauging without operator intervention.
Supplemental pressure relief function Provides additional venting during an abnormal pressure rise.	Corrosion-resistant hinge hardware Preserves consistent cover movement in aggressive atmospheres.	Flat-face flange mounting Stable installation on non-metallic or lined tank nozzles.

Benefits



CONSISTENT RESEALING AFTER ACCESS

Restores conservation vent control and limits continuous emissions.



AUTOMATIC CLOSURE BEHAVIOR

Reduces operator-dependent vapor release events.



CORROSION-STABLE CONSTRUCTION

Prevents loss of sealing capability over service life.



SUPPLEMENTAL RELIEVING CAPACITY

Reduces overpressure exposure during abnormal conditions.



SMOOTH CONTROLLED OPENING

Improves safe gauging interaction at the tank roof.



VAPOR-TIGHT SEATING

Minimizes product loss from repeated access operations.

Available Options



Corrosion barrier construction

Additional chemical protection in aggressive vapor service.



Encapsulated weight assembly

Prevents weight degradation in corrosive environments.



Alternative resin available

Material compatibility for specific stored chemicals; Derakane 470 is standard. Derakane 411 or Furan available.



Lockdown cover

Access without supplemental relieving function.



Manual closing configuration

Allows the cover to remain open during inspection procedures.



Metric flange drilling (EN PN10/16)

Compatibility with non-ANSI tank nozzles.



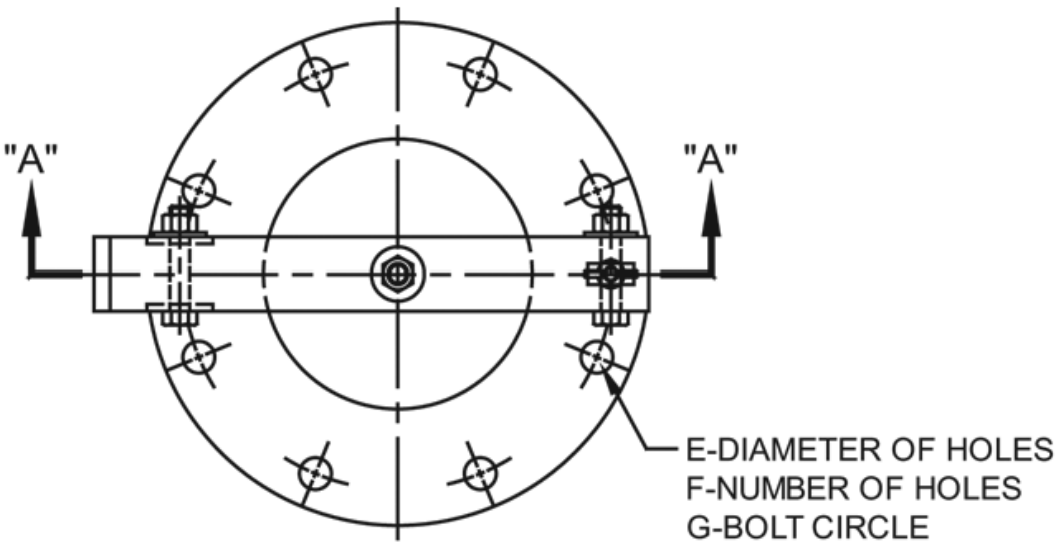
Hastelloy hardware

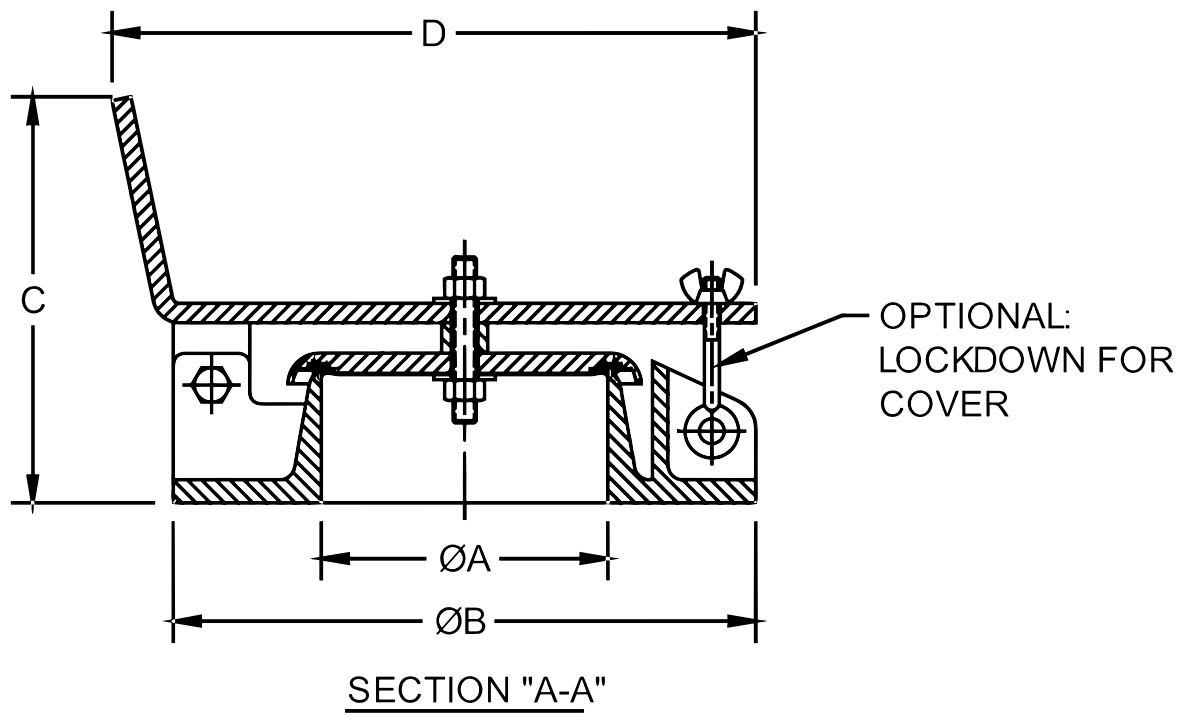
Severe corrosion service.

Key Performance Data

Parameter	Value
Device Type	Gauge/thief hatch
Nominal Sizes	4 in., 6 in., 8 in.
Mounting	Flat-face flange
Opening Method	Manual lift, self-closing
Sealing Method	PTFE air-cushion seal
Relief Function	Supplemental pressure relief
Standard Set Pressure	0.5 oz/in ²
Maximum Pressure	8 oz/in ² (4", 6"), 4 oz/in ² (8")
Lock-Down Design Pressure	1 psig
Body	Derakane 470 Vinyl Ester (Standard); Derakane 411 or Furan available
Cover	FRP weighted lid
Hardware	Stainless steel (Standard); Hastelloy available

Dimensions





SIZE	"A"	"B"	"C"	"D"	"E"	"F"	"G"
4"	4	9-½	6-⅝	10-½	¾	8	7-½
6"	6	11-½	6-⅝	12-⅝	⅞	8	9-½
8"	8	14	6-⅝	15-½	⅞	8	11-½

*Note: Dimensions expressed in inches.

Model Number Selection

The model number will consist of a base number 94069 followed by 6 digit numbers. These digits will represent 6 sets of option tables.

94069 - AB - CD - EF

Ordering Information

Specify:

1. Model 94069 Fiberglass Reinforced Plastic Gauge Hatch

2. Size

3. Material

4. Flange Type
5. Gauge Type

6. Pressure Setting for standard design

7. Temperature Range

8. To specify CE for ordinary locations use 94069C AB CD EF.

Table A - Hardware

Option A	Hardware
0	Fiberbolt/Nut, 316 SS Exterior (Std.)
1	Hastelloy C Wetted Parts, 316 SS Exterior
2	Hastelloy C

Table B - Size

Option B	Size
4	4"
6	6"
8	8"

Table C - Body Construction

Option C	Body Construction
0	Standard
1	Corrosion Barrier
2	Corrosion Barrier with Encapsulated Weights

Table D - Material

Option D	Body Material
1	411 Derakane
2	470 Derakane
3	Furan

Table E - Flange Type

Option E	Flange Type
0	ANSI 125/150 lb.
1	EN1092-1 PN16
2	EN1092-1 PN10

Table F - Gauge Type

Option F	Gauge Type
1	Standard-Auto Closing
2	Lock-Down
3	Lock-Down Manual Closing

Pressure Setting for standard design hatch:
Pressure: 0.5 oz./in.² (Standard)

Standard Weights are resin coated lead.

Maximum Pressure:
Sizes 4", 6" : 8 oz./in.²
8" : 4 oz./in.²
(Higher set points available, C.F.)

Maximum Pressure for Lock-Down design hatch: 1 PSIG

Summary

The Model 94069 allows required tank access while restoring the tank to a sealed condition after each opening event. By returning the system to normal conservation vent operation, it limits ongoing vapor loss and maintains stable tank pressure behavior in corrosive service. The FRP construction preserves sealing reliability in environments where conventional materials degrade over time.

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