Valve Concepts, Inc.

ISO Registered Company

MODEL 2100

GAUGE HATCH

OVERVIEW

The Model 2100 provides ready access to storage tanks for gauging or obtaining samples. The gauge hatch may also provide additional pressure relief as a supplement for normal or emergency venting. These gauge hatches are intended for use where the fire protection afforded by flame arresters is not considered necessary.

FEATURES

Easy Inspection, Installation, and Maintnance:

Simplistic design and light weight construction permits easy, convenient handling for inspection, installation and maintenance.

Standard construction has non-locking hatch and includes a thermometer hook and gauge marker.

Special locking design available with a Knob Latch construction.

TECHNIQUE

Gauge Hatches consist of a hinged swiveling and self-closing cap which sits on an a flanged base. Placing the foot on the serrated treadle opens the cover up to 90°, permitting inspection and easy entry for gauging or sampling. Removing foot from the treadle returns cover to a closed position.

MODEL 2100
Gauge Hatch
(Non-Locking Design Shown)

LINE SIZES AVAILABLE
4″ (DN100), 6″ (DN150), 8″ (DN200), 10″ (DN250), 12″ (DN300)

END CONNECTIONS
FLANGED

COMMON APPLICATIONS
ATMOSPHERIC & LOW-PRESSURE TANKS

DESIGN PRESSURE
MULTIPLE SET PRESSURE RANGES AVAILABLE

CONSTRUCTION

Housing / Pallet Material: Available in Aluminum, Carbon Steel, or 316 Stainless Steel.
Flange base is flat face and is designed to mate with standard ASME 150# flange.

Available Sizes: 4", 6", 8", 10" and 12"

Pallet Diaphragm Material: FEP TFE (std), Buna-N, EPDM or FKM.

PAINT

Standard: Exterior coating will be a combination of Cashco Paint Specs #S-1777 epoxy and #S-1743 powder coated. Fasteners, seat surface - corrosion resistant parts excluded.

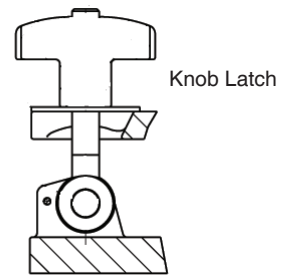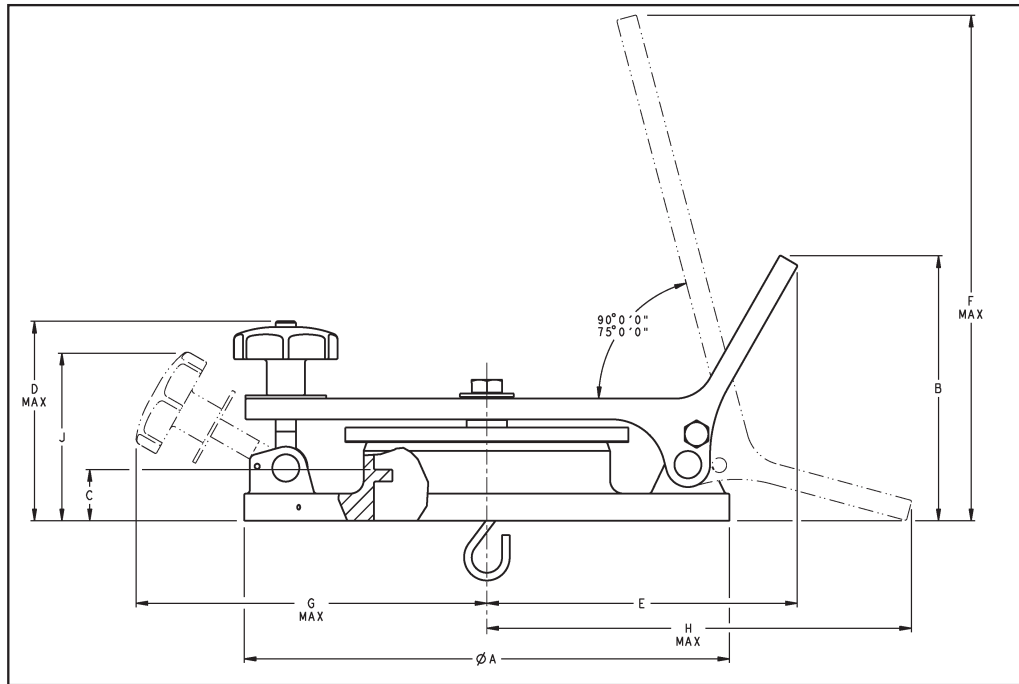| Maximum Allowable Working Pressure		
Size	Body Material	psig
4" - 10"	Alum, CS, SST	5
12"	Alum	3
12"	CS, SST	5

PAINT

Standard: Exterior coating will be a combination of Cashco Paint Specs #S-1777 epoxy and #S-1743 powder coated. Fasteners, seat surface - corrosion resistant parts excluded.

Standard <u>Non-Locking</u> Design Minimum and Maximum Set Point Pressure			
Size	Body Material	Min. oz/in^2	Max oz/in^2
4"	Alum	1.13	6.75
	CS, SST	3.10	8.75
6"	Alum	0.89	3.75
	CS, SST	2.52	5.25
8"	Alum	0.88	2.50
	CS, SST	2.54	4.75
10"	Alum	0.79	1.75
	CS, SST	2.30	3.25
12"	Alum	0.74	1.50
	CS, SST	2.16	3.00

Additional loading weight maybe added to cover of Non-Locking Design for higher set point pressures.

DIMENSIONS & WEIGHTS

Knob Latch

DIMENSIONS - inches									Weights - lbs.	
SIZE	ØA	B	C	D MAX	E	F MAX	G MAX	H MAX	J	ALUM	CS/SST
4"	Ø9.00				5.78	9.28	6.56	7.91		5	12
6"	Ø11.00				6.78	11.25	7.56	8.91		6	16
8"	Ø13.50	4.88	0.94	4.00	8.03	13.62	8.81	10.16	3.25	9	24
10"	Ø16.00				9.28	16.00	10.06	11.41		11	31
12"	Ø19.00				10.78	18.97	11.56	12.91		15	43

2100 Series PRODUCT CODE

02/07/20

Last 6 Characters reserved for SPQ drawing numbers assigned by Cashco Inc.
(Format as - # # # # #)

| 21 | POS 3 | POS 4 | POS 5 | B | POS 7 | 0 | 0 | POS 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

POSITION 3 - LATCH

Mechanism	CODE
None *	0
Knob	2
* Non-Locking	

POSITION 4 - SIZE

Size	CODE
4"	4
6"	6
8"	8
10"	A
12"	B

POSITION 5 - HOUSING / PALLET

Material	CODE
Alum/Alum	A
CS/CS	C
SST/SST	S

POSITION 7 - DIAPHRAGM

Material	CODE
FEP-TFE (Std)	A
Buna-N	B
EPDM	D
FKM	F

POSITION 10 - WEIGHTS

Loading Weight	CODE
None (Std)	0
SST *	S
* For Set Point Pressures above Min Set Point - Non-Locking Design only.	

* For information on ATEX see pages 5 & 6 on the IOM.