



PV-1000 Manways



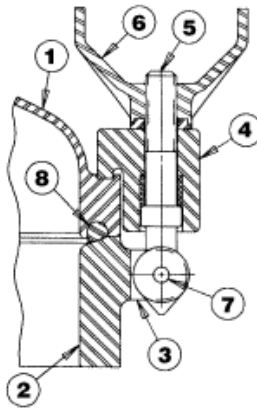
FOR PRESSURE APPLICATIONS

PV – 1000 Manways

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SPECIAL FEATURES

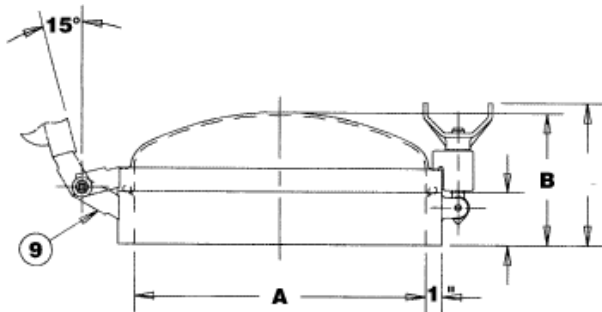
- Designed and fabricated for ASME code application
- Superior sanitary design
- Large cross section o-ring snap fits in cover for a secure fit
- One inch thick frame provides protection against weld distortion upon installation
- Spring loaded hold-down lugs
- Cover lock-up device
- Easy grip wingnuts with nylon washers
- Lift handle included
- Structurally optimized by three dimensional finite element analysis



MATERIALS OF CONSTRUCTION

Item No.	Material Specification	Description
1	316/316L	Cover
2	316/316L	Frame
3	316	Frame Lug
4	316	Cover Hold-down Lug
5	304	Clamp Screw
6	Nitronic #60	Wingnut
7	17-4 PH	Pin
8	FDA appvd. red silicone	O-Ring
9	304	Hinges
	304	Handle

Other product contact materials available



DIMENSIONAL DATA

Size	A Inside Dia.	B Height	Cover Weight	Lift Weight At Handle
16	16	8	35 lbs.	18 lbs.
18	18	8-1/4	40 lbs.	20 lbs.
20	20	8-1/2	47 lbs.	24 lbs.
24	24	9	61 lbs.	31 lbs.
30	30	10-3/4	84 lbs.	42 lbs.

All dimensions are in inches

SURFACE FINISH

- Standard finish 150 grit inside and outside.
- Interior finish from 150 grit to 320 grit. Electropolishing available.
- Exterior finish from 80 grit to 240 grit. Electropolishing and bead blasting available.

OPTIONS

- Machine weld prep on frame
- Frame extension sleeve
- Installed fittings and viewports
- Cover lift assist
- Gaskets of Viton, EPDM, or Teflon-encapsulated silicone



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MAXIMUM ALLOWABLE WORKING PRESSURE (PSI) FOR 316/316L

Size	No. of Lugs	Working Temperature	
		100°F.	300°F.
16	4	82	68
	5	103	86
	6	123	103
18	4	65	54
	5	81	68
	6	95	74
20	4	53	44
	5	66	55
	6	78	65
24	4	37	30
	5	46	38
	6	55	46
	7	64	53
	8	73	61
30	12	109	91
	8	47	39
	12	70	58
	16	93	78
	24	109	90

All manways are designed for full vacuum and minimum design metal temperature -20°F. Ask about maximum allowable working pressures for other materials, sizes, temperatures, and number of lugs.

The above specifications are for reference purposes only.