

The H-Series Manway™

The KING of Pharmaceutical Manways.

The H-Series Manway has an impressive 25 year history. With 10,000+ manways in service today, the H-Series is the STANDARD.



Product Features

- Sanitary, pharmaceutical design
- Handles higher pressures with fewer lugs, providing easier access
- Standardized clamp / lug assemblies
- 1/4" Plate cover & collar on sizes 8" - 26" manways
- 5/16" Plate cover & 1/4" plate collar on sizes 28" - 48" manways
- 6" standard collar length (Collars up to 72" are available)
- Provided with a standard hinge heavy duty hinge & handle
- Optional stainless enclosed spring assist is available
- O-Ring groove is available in the cover or collar ring
- Standard O-Rings are 5/16" Cross Section



* 18" (5) Lug H-Series is shown

Materials & Finishes

- T-316L (Standard), T-304L, C-22, C-276, AL6XN, others available
- All interior welds are ground "Smooth & Flush"
- All Exterior welds can be ground "Smooth & Flush", "Buffed", or left "As-Is"
- Finishes are available from a Mill (HRAP) finish to a 10 Ra (320 Grit)

Standard O-Ring Gasket Materials

- | | |
|-------------------------------|--|
| • Red Silicone (FDA) | • Black EPDM (USP Class VI) |
| • Red Silicone (USP Class VI) | • Teflon Encapsulated Silicone (USP Class VI) |
| • Black Viton (FDA) | • Teflon Encapsulated EPDM (USP Class VI) |
| • Black Viton (USP Class VI) | • Teflon Encapsulated Viton (USP Class VI) |
| • Black EPDM (FDA) | • Platinum Cured White Silicone (USP Class VI) |



Holloway America
720 N. Cedarbrook Ave.
Springfield, MO 65802

Phone: 417.863.0077
Toll Free: 866.659.0077
Fax: 417.863.8851

www.HollowayAmerica.com
info@HollowayAmerica.com
Datasheet: H-Series_250826

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H-Series Manway Features & Options

H-SERIES MANWAY FEATURES	H-SERIES MANWAY SIZES			
	8"-14"	16"-24"	26"-36"	38"-48"
STANDARD HANDLE ASSEMBLY	S	S	O	--
STANDARD HINGE ASSEMBLY	S	S	--	--
HEAVY DUTY HINGE ASSEMBLY	--	O	O	--
SUPER HINGE ASSEMBLY	--	O	O	--
STANDARD DUTY SPRING ASSIST	O	O	--	--
HEAVY DUTY SPRING ASSIST	--	O	O	--
LOCKING DEVICE (COVER ASSEMBLY)	O	O	O	--
O-RING GROOVE IN COLLAR RING	S	S	S	S
DOVETAIL GROOVE IN COLLAR RING	O	O	O	O
O-RING GROOVE IN COVER RING	O	O	O	O
DOVETAIL GROOVE IN COVER RING	O	O	O	O
STANDARD WINGNUTS	S	S	S	S
PRECISION BLUE KNOBS	O	O	O	O
MACHINED HEX NUTS	O	O	O	O

S = STANDARD | **O** = OPTIONAL | **--** = NOT AVAILABLE



* 18" (5) Lug H-Series is shown



* 16" (4) Lug H-Series is shown



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H-Series Manway Pressure Chart

SIZE	LUGS	PRESSURE RATING (PSIG)				
		100°	200°	300°	350°	400°
8"	3	161	153	143	140	138
8"	4	215	201	191	187	184
10"	3	109	103	96	95	93
10"	4	146	137	129	127	124
12"	3	78	74	69	68	67
12"	4	105	99	93	91	89
12"	5	131	124	116	114	112
14"	3	59	56	52	51	50
14"	4	79	75	70	69	67
14"	5	99	93	87	86	84
14"	6	119	112	105	103	101
16"	4	62	58	54	54	53
16"	5	77	73	68	67	66
16"	6	93	88	82	81	79
16"	8	124	117	109	108	106
16"	10	140	140	137	135	131
18"	4	49	47	44	43	42
18"	5	62	58	55	54	53
18"	6	74	70	66	65	63
18"	8	99	94	88	86	85
18"	10	124	117	110	108	106
18"	12	131	124	124	121	117
20"	5	51	48	45	44	43
20"	6	61	58	54	53	52
20"	8	81	77	72	71	69
20"	10	102	96	90	89	87
20"	12	112	112	108	106	104
22"	5	42	40	37	37	36
22"	6	51	48	45	44	43
22"	8	68	64	60	59	58
22"	10	85	80	75	74	73
22"	12	102	96	90	89	88
22"	14	112	106	102	99	96
24"	6	43	41	38	37	37
24"	8	57	54	51	50	49
24"	10	72	68	64	63	61
24"	12	86	82	76	75	74
24"	14	94	94	89	88	86
24"	16	94	94	94	91	88
26"	8	49	47	44	43	42
26"	10	62	58	55	54	53
26"	12	74	70	66	64	63
26"	14	87	82	77	75	74
26"	16	87	87	87	84	82
28"	8	43	40	38	37	36
28"	10	43	51	47	46	46
28"	12	64	61	57	56	55
28"	14	75	71	66	65	64
28"	16	81	81	76	75	73
30"	8	37	35	33	32	32
30"	10	47	44	41	41	40
30"	12	56	53	50	49	48
30"	14	66	62	58	57	56
30"	16	75	71	66	65	64

* H-Series Manways are available in sizes up to 48", inquire with your Sales Engineer for pressure ratings.



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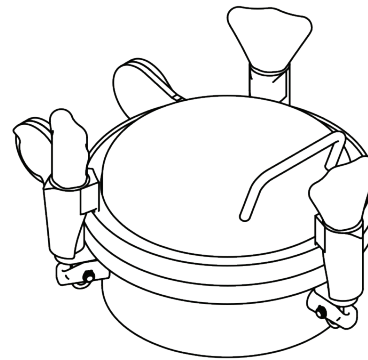
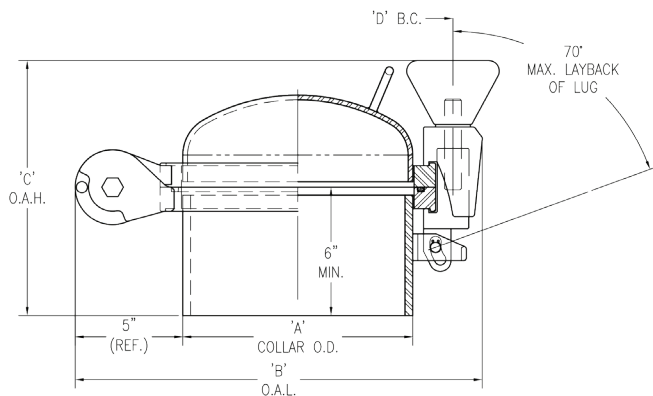
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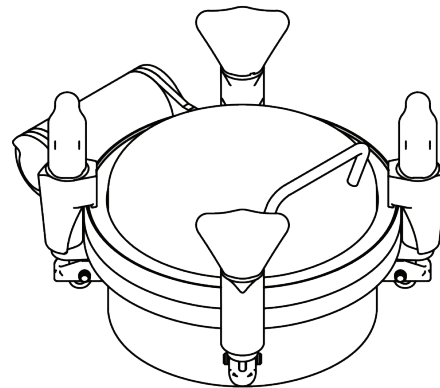
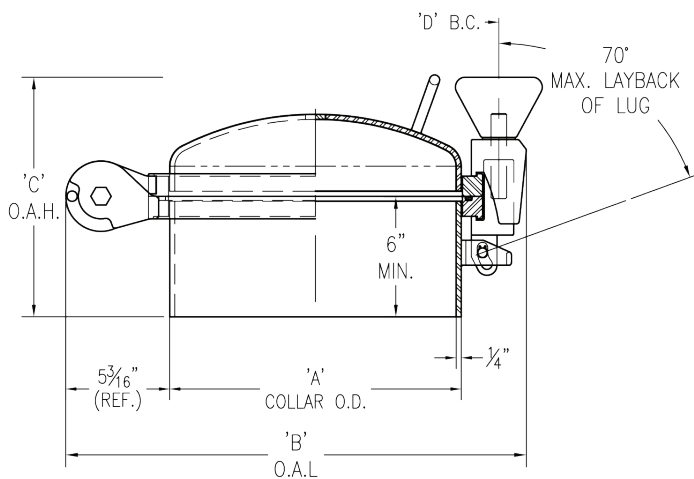


H-Series Manway Dimensional Charts

SIZE	"A" COLLAR O.D.	"B" OVERALL LENGTH	"C" OVERALL HEIGHT	"D" EYEBOLT B.C.	APPROX. WEIGHT
8"	8 5/8"	16 7/16"	12"	12 3/8"	45 LBS.
10"	10 3/4"	19"	12"	14 1/2"	52 LBS.



SIZE	"A" COLLAR O.D.	"B" OVERALL LENGTH	"C" OVERALL HEIGHT	"D" EYEBOLT B.C.	APPROX. WEIGHT
12"	12 1/2"	23"	12"	16 1/4"	48 LBS.
14"	14 1/2"	25"	12"	18 1/4"	56 LBS.



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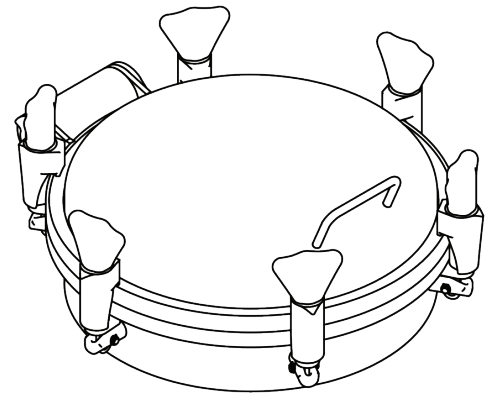
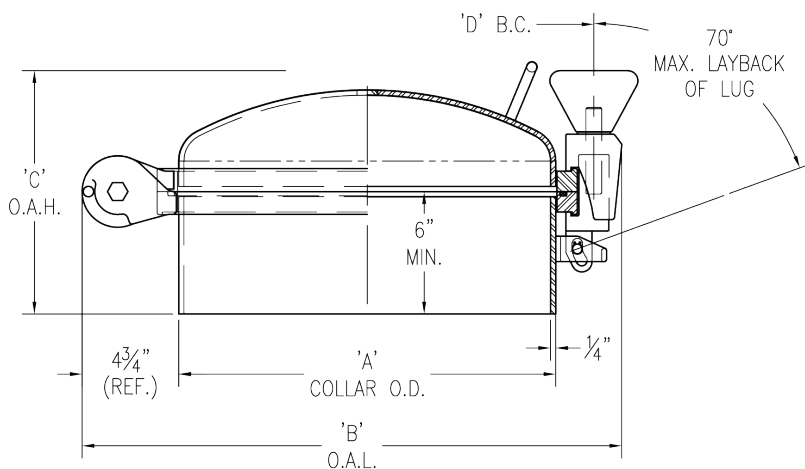
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SIZE	"A" COLLAR O.D.	"B" OVERALL LENGTH	"C" OVERALL HEIGHT	"D" EYEBOLT B.C.	APPROX. WEIGHT
16"	16 1/2"	24 1/2"	12"	20 1/4"	84 LBS.
18"	18 1/2"	26 1/2"	12"	22 1/4"	95 LBS.
20"	20 1/2"	28 1/2"	12"	24 1/4"	108 LBS.
22"	22 1/2"	30 1/2"	12"	26 1/4"	121 LBS.
24"	24 1/2"	32 1/2"	12"	28 1/4"	137 LBS.
26"	26 1/2"	34 1/2"	12"	30 1/4"	150 LBS.
28"	28 1/2"	36 1/2"	12"	32 1/4"	165 LBS.



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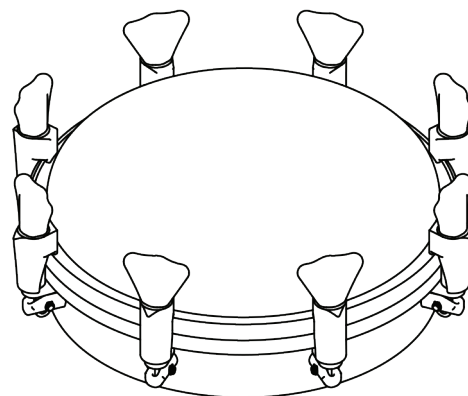
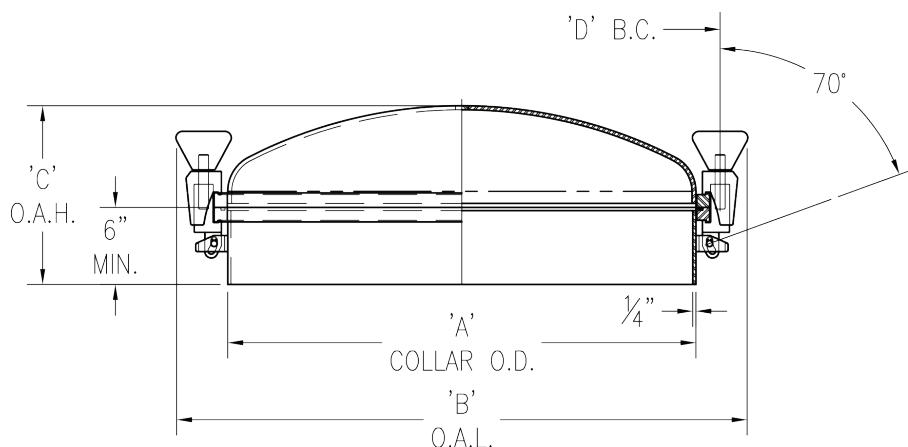
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SIZE	"A" COLLAR O.D.	"B" OVERALL LENGTH	"C" OVERALL HEIGHT	"D" EYEBOLT B.C.	APPROX. WEIGHT
30"	30 1/2"	38 1/2"	13 1/16"	34 1/4"	184 LBS.
32"	32 1/2"	40 1/2"	13 5/16"	36 1/4"	201 LBS.
34"	34 1/2"	42 1/2"	14 3/16"	38 1/4"	222 LBS.
36"	36 1/2"	44 1/2"	14 5/8"	40 1/4"	240 LBS.
38"	38 1/2"	46 1/2"	14 3/4"	42 1/4"	260 LBS.
40"	40 1/2"	48 1/2"	15"	44 1/4"	278 LBS.
42"	42 1/2"	50 1/2"	15 1/4"	46 1/4"	300 LBS.
44"	44 1/2"	52 1/2"	15 9/16"	48 1/4"	320 LBS.
46"	46 1/2"	54 1/2"	15 11/16"	50 1/4"	342 LBS.
48"	48 1/2"	56 1/2"	16 1/16"	52 1/4"	363 LBS.



- * H-Series Manways weights are estimated based upon the manway size listed on the chart using the lowest lug configuration, hinge and handle.
- * For each additional lug added to the manway over the base lug number, add 5 lbs. to the weight.
- * If your application requires a spring assist, add 10 lbs. to the weight.



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H-Series Manway Clamping Options



Standard Wingnuts

An H-Series Manway standard, and the most popular clamping option. This wingnut comes with a 180 Grit polished finish.



Precision Blue Knobs

A Biopharmaceutical favorite, this Blue Knob is typically used with situations require enclosed threads. This unit has a molded exterior with a Nitronic 60 insert.



Machined Hex Nuts

A unique Holloway America design, which is typically used with situations require enclosed threads and or when clearance issues arise due to the number of lugs on a manway. This option offers the lowest available profile.



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H-Series Manway Spring Assists

Holloway America offers (2) types of Spring Assists. Our Standard Duty & Heavy Duty. Each assist is designed to offer the operator an easy lifting experience over a wide range of sizes. Typically, lifting force is reduced well below to 50 lb.

Standard Duty Spring Assist



* Standard Duty Hinge is shown

- Sanitary, pharmaceutical design
- Designed for manways from 12" to 24"
- Enclosed Spring for easy operation and cleaning
- The assist comes installed and pre-set for optimal lifting.
- The assist will reduce the required lifting force to 50 lbs. or less
- Available "First Person" installation video
- Can be installed on any H-Series or K-Series Manway that has standard hinges

Heavy Duty Spring Assist



* Super Hinge is shown

- Sanitary, pharmaceutical design
- Designed for manways from 18" to 30"
- Enclosed Spring for easy operation and cleaning
- The assist comes installed and pre-set for optimal lifting.
- The assist will reduce the required lifting force to 50 lbs. or less



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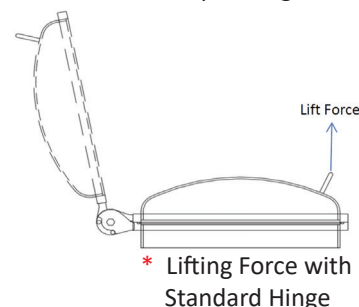
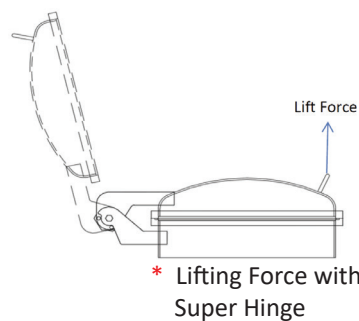
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H-Series Manway Required Lifting Force (In Lbs.)

SIZE	STANDARD HINGE	WITH STANDARD HINGE SPRING ASSIST	WITH SUPER HINGE AND HEAVY DUTY SPRING ASSIST
8"	11 LBS.	-58 LBS.	--
10"	14 LBS.	-38 LBS.	--
12"	17 LBS.	-25 LBS.	--
14"	20 LBS.	-16 LBS.	--
16"	25 LBS.	-8 LBS.	--
18"	29 LBS.	0 LBS.	-19 LBS.
20"	32 LBS.	5 LBS.	-10 LBS.
22"	37 LBS.	12 LBS.	-2 LBS.
24"	43 LBS.	20 LBS.	7 LBS.
26"	48 LBS.	26 LBS.	15 LBS.
28"	53 LBS.	33 LBS.	22 LBS.



- * H-Series Manways have a very light lifting force requirement. The spring assist is recommended on manways 18" and larger to further minimize the required lifting force.
- * The negative ratings above are stating that the force required to raise the cover is below 0 lbs. Indicating that the tension on the spring is already lifting the cover prior to any lifting force being applied. (See reference photo below).
- * The spring assist provides a cushioning effect upon closure, using the assemblies stored energy. This reduces the closure speed and the chance of operator smashing their fingers in the manway.



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