

### YOKE AND BOLT MANWAYS

Elliptical yoke & bolt manways provide reliable, low cost access to pressure vessels. As a self energizing unit, yoke and bolt manways require positive internal pressures of at least 50 psi to achieve sealing. The standard yoke and bolt unit consists of a carbon steel ring, a pressed steel cover, one or two steel yokes (depending on type) with bolts, nuts and gasket. Manhole plates and rings are manufactured of materials in accordance with ASME Code specifications. Manhole rings are fabricated or formed from materials listed

in Section II and welded per Section IX of the ASME Boiler and Pressure Vessel Code. Identifying marks required by Code Paragraph PG11 and UG-11 are stamped on each ring.

Standard elliptical steel manway assemblies are available in three (3) basic sizes: 11" x 15", 12" x 16", and 14" x 18" .

Complete assemblies are furnished with an elliptical ring in depths of 3", 4", or 6" with a thickness of 3/4" or 1" depending on size. The

standard gasket supplied is black neoprene (60-70 Shore). Other gasket materials are available to suit specific applications. Available gaskets for formed manhole covers are: Buna-S, high temperature Neoprene, and expandable Teflon foam.

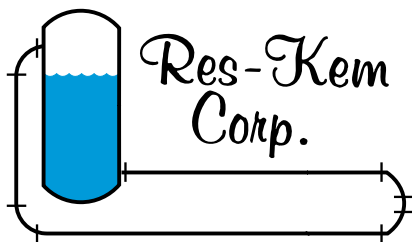
Cover assemblies can be supplied for existing installations . These assemblies consist of a complete manway assembly, less ring, (Specify gasket material).

## Basic Yoke and Bolt Manway Table

Nominal Size (W x L x T x H)	Cover Thickness	Pressure Rating	Yokes		Bolt Size	Approx. Weight	
			No.	Size		w/Ring	w/o Ring
11 x 15 x 3/4 x 3	3/8	300	2	12 x 3.5	3/4	59	31
11 x 15 x 3/4 x 3	1/2	600	2	12 x 3.5	3/4	70	42
12 x 16 x 3/4 x 3	3/8	300	2	12 x 3.5	3/4	68	38
12 x 16 x 3/4 x 3	1/2	600	2	12 x 3.5	3/4	78	48
14 x 18 x 3/4 x 3	3/8	300	2	15 x 6	3/4	94	59
14 x 18 x 1 x 3	3/8	300	2	15 x 6	3/4	106	71

### Notes:

1. All dimensions are in inches, pressure ratings are in pounds per square inch and weights are in pounds.
2. The nominal size dimensions are the inside dimensions of the ring (width x length x ring thickness x height of ring).
3. In the event cover assemblies are ordered without rings, customers are requested to specify their ring heights so bolt lengths can be properly determined.
4. Manways with standard pressed covers and standard yokes and bolting are not suitable for use with hard gaskets; such as, solid jacketed or spiral wound metal.
5. Liability - Responsibility is limited to quality and workmanship of metal parts as proved by vessel fabricators hydrostatic shop test. Liability is limited to replacement of or credit for the defective part only. No warranty on gasket service is implied or expressed.



## Water Conditioning Equipment & Supplies

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