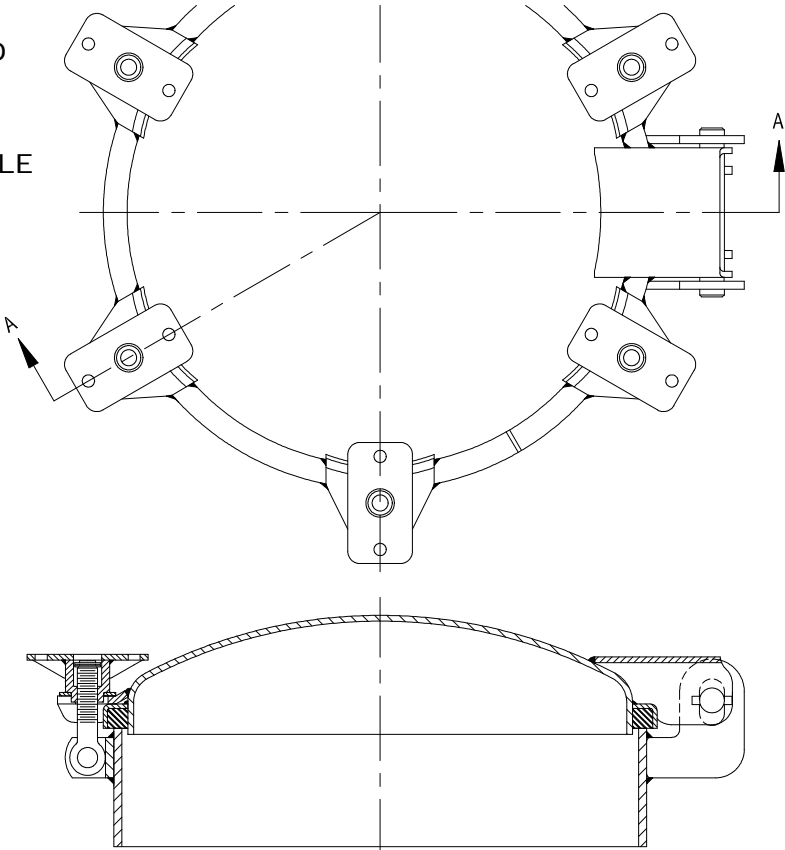




16" (406mm) FULL OPENING MANHOLE

ASME TYPE

ASME SYMBOL & DATA PROVIDED
 THREADED HOLD-DOWNS
 6" OR 10" HIGH COLLAR AVAILABLE



Section A-A
 Model 8303

This Tiona 16" Full Opening Manhole conforms to the requirements of the ASME code for pressure vessels Section VIII, Division 1.

Weld Collar	Cover	Wing-Nut, Swing Bolts Hinge Pins	Number Hold Downs	*Working Pressure	Weight	Collar Height	Assembly No.
Aluminum	Steel	Stnls 304	6	50 PSI 3.4 BAR	41.5LB	6" (152.4mm)	8303ASW-6"
Aluminum	Stnls 316L	Stnls 304			18.86Kg		8303ALW-6"
Steel	Steel	Stnls 304			55.9LB		8303SCW-6"
Stnls 316L	Stnls 316L	Stnls 304			25.36Kg		8303LCW-6"
Aluminum	Steel	Stnls 304	6	50 PSI 3.4 BAR	46.5LB	10" (254mm)	8303ASW-10"
Aluminum	Stnls 316L	Stnls 304			21.14Kg		8303ALW-10"
Steel	Steel	Stnls 304			70.5LB		8303SCW-10"
Stnls 316L	Stnls 316L	Stnls 304			31.98Kg		8303LCW-10"

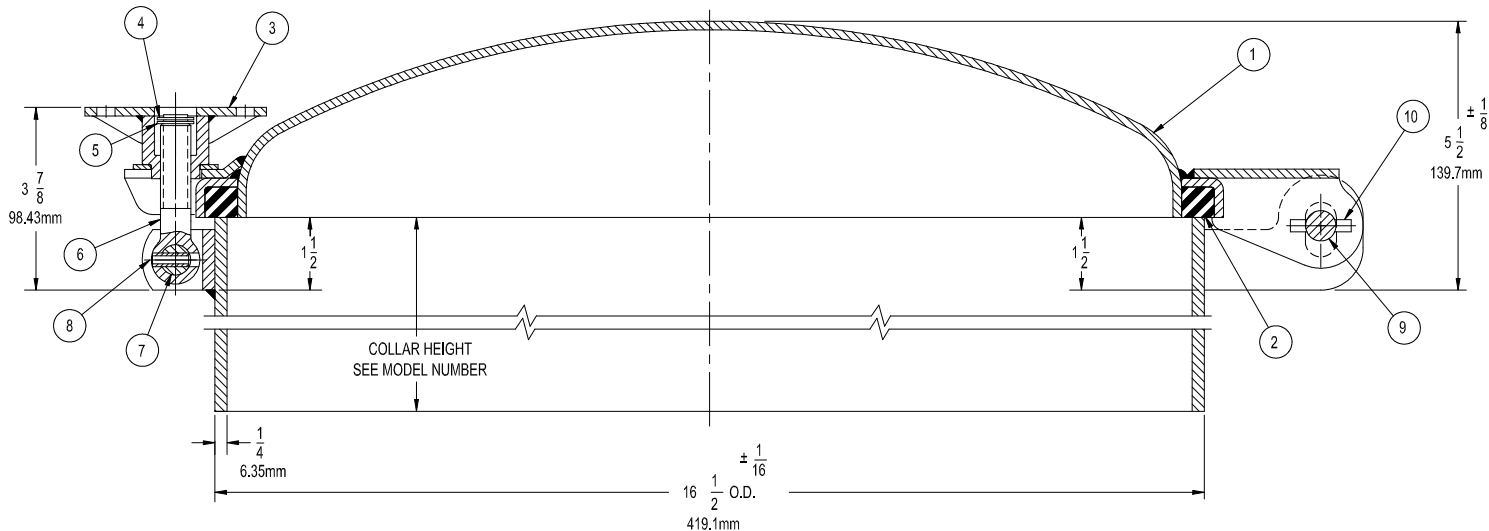
Notes: White Hypalon gasket furnished as standard (reference suffix "W" in assembly number). For other gaskets available, see parts page for correct suffix.

*Tests were conducted and ratings determined with homogeneous gaskets

During installation and welding the collars to the tank, care should be exercised to insure the collars remain flat and round in order to assure proper performance. If necessary a welding fixture should be used to prevent distortion.

PARTS LIST

16" (406mm) FULL OPENING MANHOLE
ASME TYPE



No.	Description	Material	Part No.
1	Cover	Steel	6446FB
		Stnls 316L	6446LC
2	Gasket*	B Buna-N	3657BN
		V Viton	3657VT
		W White Hypalon	3657WH
		E White Non-Asbestos with Teflon Suspensoid (Woven)	3657NT

No.	Description	Material	Part No.
3	Wing Nut	Stnls 304	3576SL
4	Snap Ring	Stnls 304	9Q4933
5	Snap Ring Washer	Stnls 304	3575SL
6	Swing Bolt	Stnls 17/4 PH	4102SF
7	Swing Bolt Pin	Stnls 304	3086SL
8	Roll Pin-Swg Bolt	Stnls 304	9Q8593
9	Hinge Pin	Stnls 304	3121SL
10	Roll Pin-Hinge Pin	Stnls 304	9Q8594

*Gasket Maximum Temperature

Buna-N (Nitrile)	250°F
Viton	400°F
White Hypalon	250°F
White Non-Asbestos with Teflon Suspensoid	500°F

GASKETS:

Check the condition of all gaskets and replace if their effectiveness as a seal is impaired in any way. Replacement gaskets must be compatible with products carried.

MAINTENANCE:

Manhole assembly should be inspected with sufficient frequency and with due regard to the products carried to insure a liquid tight closure. Any worn, damaged, or missing parts must be replaced.

WING NUTS AND SWING BOLTS:

All swing bolt and wing nut assemblies must be secured to the cover and tightened to insure the pressure and product retention performance of the manhole assembly.

WARNING Use only genuine Betts Industries Inc. replacement parts. Use of substitute parts can impair the proper functioning of this product.