

20" [508mm] Full Opening Shallow Head Manhole

Model 8310, 6 Hold Down, 43.5 psi MAWP

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With decades of service and commitment to quality, the Betts' Full Opening Manhole product line is the proven leader of the chemical transportation and stationary tank markets. This industrial grade 20" [508 mm] manhole includes a low-profile shallow head and conforms to the requirements of 49CFR§178.345-5 and §178.347-3 for use as an access port on DOT cargo tanks.

The 8310-manhole assembly incorporates six (6) threaded 304SS wing-nut hold-downs and heavy-duty 5/8-inch 304SS welded swing-bolts. The hinge is configured to provide 180-degree opening but optional hinge-stops are also available. Manholes are available in multiple material configurations with a range of gasket material options to accommodate specific service applications. Manholes manufactured from 316 stainless steel are fully passivated in accordance with ASTM A380 and are suitable for a wide range of chemical and food-grade applications.



MODEL 8310

This manhole is NOT rated for ASME service, but Betts does offer an extensive line of ASME manholes.

Model 8310 Design Pressure		Test Pressure **
Internal MAWP	External MAWP (Vacuum)	
43.5 psi (3.0 bar)	FV (-14.7 psig)	75 psi (5.2 bar)

See Section 88 Page 6B for parts list and Section 88 Page 0A for gasket temperature ratings and part numbering codes.

Part Number *	Materials of Construction		Weight	Collar Height *
	Weld Collar	Dome Cover		
8310ASX-8	Alum. (5454 H32)	Steel (SA414 Gr. C)	48 lb. (21.8 kg)	8" (203 mm)
8310ALX-8	Alum. (5454 H32)	316L Stainless Steel		
8310SCX-8	Steel (SA414 Gr. C)	Steel (SA414 Gr. C)	80 lb. (36.3 kg)	
8310LCX-8	316L Stainless Steel	316L Stainless Steel	80 lb. (36.3 kg)	
8310PLX-8	2205 Duplex	316L Stainless Steel		

* Alternate collar heights are available by designating 4, 6, 8, or 10 as last digits of part number.

** Test pressure established using elastomer gasket. Manhole sealing performance is dependent on gasket selection, condition of sealing surfaces and wing-nut torque.

Note: Gaskets are sold separately with a wide range of materials available. See parts list page for material listing. Service temperature of manhole may be limited by gasket selection. See page S88P0A for temperature ratings. Care should be exercised when welding collar to tank to ensure the collar remains flat and round. If necessary, a welding fixture should be used to prevent distortion. See Maintenance Manual MM-MH001 for additional details on installation and operation.

WARNING: This product can expose you to chemicals including Chromium (hexavalent compounds), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov



Designed, engineered and manufactured in the USA. 