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Diversified CPC Int'l



## Transport Properties

### Transports

Diversified CPC maintains a dedicated fleet of DOT MC330/331 specification trailers and twin barrels. Depending upon transport capacity and overall empty weight of the truck and transport combination, load capacities range from 2,500 to 9,000 gallons (cannot exceed 80,000 lbs. GVW).



### Dimensions

Overall length (truck and transport): 60'  
Width: 8'  
Height: 11'-6"  
Turning Radius: Approx. 60'

Units may vary in height and length. All units are rated for up to 250 psig MAWP.

Typical Load Capacity (in gallons)

Water Capacity	Propane	Isobutane	Normal
2,889	2,557	2,663	2,671
4,500	3,983	3,873	3,742
10,400	9,000	8,087	7,813

The chart depicts typical load capacity based on the trailer's water weight capacity and the type of gas that is being transported. (Assumes 38,000 lbs. truck and transport weight.)

### Truck/Transport Delivery Safety Features

All MC330 & MC331 cargo tanks are tested and inspected in accordance with the DOT requirements found in 49CFR§180.416 Subpart E.

Transport valves are protected by a heavy duty metal cage. All liquid and vapor openings on the transport for piping connections are equipped with pneumatically actuated internal safety valves that also have automatic thermal shutoff capabilities and built-in excess flow valves. Our transports are equipped with Smart-Hose® technology for liquid transfer to comply with DOT Passive Shutdown requirements.

Drivers remain in attendance and, in case of an emergency during the unloading process, the driver can immediately shut the internal self-closing stop valve (remotes located in the front and rear of container).

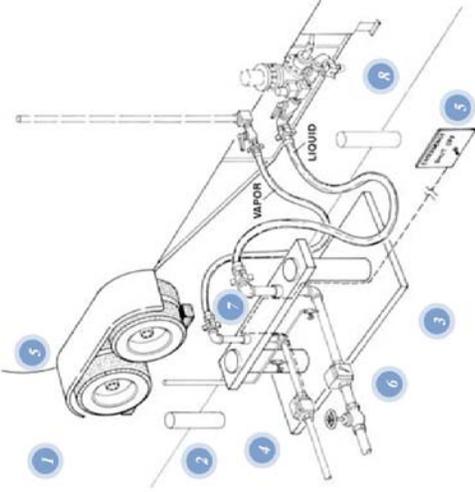
All Diversified CPC personnel who are employed to handle and transport LP-Gas are trained in the proper handling and transportation procedures. Depending upon the code requirements for the facility (i.e. which code does the facility fall under: NFPA 58, NFPA 59, NFPA 59A, API 510 or other), the design requirements for the transport unloading station may vary. Diversified CPC can provide assistance in understanding these requirements.

TP16.1

## Transport Unloading Safety Check Points

NFPA 58 Diversified CPC recommended:

- 1) Cargo tank vehicles unloading into storage containers must be at least 10 feet from the container and positioned such that the shutoff valves on both the container and truck are readily accessible. The cargo tank vehicle shall not transfer gas while parked on a public way.
- 2) Concrete bulkhead or equivalent anchorage to assist in providing a predictable breakaway point to retain intact the valves and piping on the plant side of the connections.
- 3) Cargo tanks are required to have a passive shutdown device that will stop the flow of gas upon hose separation (eg. Smart-Hose®).
- 4) Vapor Line must have an emergency valve with means for manual shutoff, thermal release, and remote control provisions.
- 5) Remote Shutoff Control (Transport and Plant).
- 6) Liquid Line must have either a back flow check valve (may be part of sight flow unit), or an emergency valve with means for manual shutoff, thermal release, and remote shutoff control. Note: It is recommended the hose or pipe connections be capped or plugged except during the transfer operations. Proper devices must be used to connect and disconnect the hose couplings.
- 7) Strainer or screen to prevent debris or foreign material from entering piping system and impeding the action of valves and other components.
- 8) Hose assemblies must be observed for leakage or damage (outer cover, kinked or flattened hose, soft spots or bulges, couplings that have slipped, are damaged, or have missing parts or loose bolts) that could impair their integrity before each use.



## Maximum Permitted Liquid Volume

(Percent of Total Water Capacity)

Above Ground Containers Over 1,200 U.S. Gallons

Temp °F	Specific Gravity												
	.496 to	.504 to	.511 to	.520 to	.528 to	.537 to	.545 to	.553 to	.561 to	.569 to	.577 to	.585 to	.593 to
-50	75	76	77	78	79	80	80	81	81	82	83	84	85
-45	76	77	78	79	80	81	81	82	83	83	84	84	85
-40	76	77	78	79	80	80	81	82	83	83	84	85	85
-35	77	78	78	79	80	81	82	82	83	84	84	85	86
-30	77	78	79	80	80	81	82	83	83	84	85	85	86
-25	78	79	79	80	81	82	82	83	84	84	85	86	86
-20	78	79	80	81	81	82	83	83	84	85	85	86	87
-15	79	79	80	81	82	82	83	84	85	85	86	87	87
-10	79	80	81	82	83	84	84	85	86	87	87	88	88
-5	80	81	81	82	83	83	84	85	85	86	87	87	88
0	80	81	82	82	83	84	84	85	86	86	87	88	88
5	81	82	82	83	84	84	85	86	86	87	87	88	89
10	81	82	83	83	84	85	85	86	87	87	88	88	89
15	82	83	83	84	85	85	86	87	87	88	88	89	90
20	82	83	84	85	85	86	86	87	88	88	89	89	90
25	83	84	84	85	86	86	87	88	88	89	89	90	90
30	83	84	85	86	86	87	87	88	89	89	90	90	91
35	84	85	86	86	87	87	88	89	89	90	90	91	91
40	85	86	86	87	87	88	88	89	90	90	91	91	92
45	85	86	87	87	88	88	89	89	90	91	91	92	92
50	86	87	87	88	88	89	90	90	91	91	92	92	92
55	87	88	88	89	89	90	90	91	91	92	92	93	93
60	88	88	89	89	90	90	91	91	92	92	93	93	93
65	88	89	90	90	91	91	91	92	92	93	93	94	94
70	89	90	90	91	91	91	92	92	93	93	94	94	94
75	90	91	91	91	92	92	92	93	93	94	94	95	95
80	91	91	92	92	92	93	93	93	94	94	95	95	95
85	92	92	93	93	93	94	94	94	95	95	96	96	96
90	93	93	93	94	94	94	95	95	95	96	96	96	96
95	94	94	94	95	95	95	95	96	96	96	97	97	97
100	94	95	95	95	95	96	96	96	96	97	97	97	98
105	96	96	96	96	97	97	97	97	97	97	98	98	98
110	97	97	97	97	97	97	98	98	98	98	98	99	99
115	98	98	98	98	98	98	98	98	98	98	99	99	99



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