



# Motor Fuel (MF) Cylinder Storage

MF cylinders must be positioned so that the pressure relief device is in direct communication with the vapor space of the cylinder in either the vertical or horizontal position.



## MF CYLINDER STORAGE (INSIDE of a Building)

The maximum quantity of MF cylinder storage within a building, **not frequented by the public**, must not exceed 300 lbs. propane capacity or a maximum of nine 33# MF cylinders. If more storage is needed, another 300 lbs. may be stored within the same building but must be separated by a minimum of 300 feet.

**NOTE:** *If empty cylinders that have been in service are stored indoors they will be considered full for the purpose of determining maximum quantity.*

## MF CYLINDER STORAGE (OUTSIDE of a Building)

MF cylinder storage that exceeds 300 lbs. (9 33# MF cylinders) at a single storage location must be stored outside of a building.

MF cylinder storage outside of a building must comply with the distances set forth in Table 8.4.1.2 shown below.

1. Nearest Important building or group of buildings;
2. Line of adjoining property that can be built upon;
3. Busy thoroughfares or sidewalks on other than private property;
4. Line of adjoining property occupied by schools, hospitals or other points of public gathering; or
5. Dispensing Stations.

**Table 8.4.1.2 Distances from Cylinders in Storage and Exposures**

Quantity of LP-Gas Stored	Horizontal Distance to (1) and (2)	Horizontal Distance to (3) and (4)	Horizontal Distance to (5)
720 lb or less	0 ft	0 ft	5 ft
721 to 2500 lb	0 ft	10 ft	10 ft
2501 to 6000 lb	10 ft	10 ft	10 ft
6001 to 10,000 lb	20 ft	20 ft	20 ft
>10,000 lb	25 ft	25 ft	25 ft

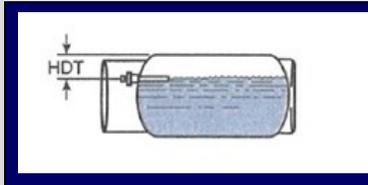
**NOTE:** *The point of transfer must not occur within 25 feet from any doorway or building opening if MF cylinders are filled on site.*



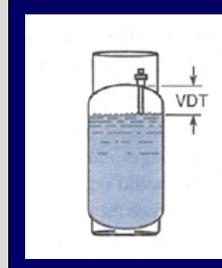
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## MF CYLINDER FILLED ON SITE

MF Cylinders can be filled in either the vertical or horizontal position if they are marked with the letters DT or not labeled for horizontal use only or "UP" on the collars. If the MF cylinder is to be filled horizontally it must properly positioned so the fixed liquid level gauge in the 12:00 position.



MF cylinders marked with the letters HDT or horizontal use only must be filled in the horizontal position.



MF cylinders marked with the letters VDT or UP must be filled in the vertical position.

## INSPECTION OF MF CYLINDER

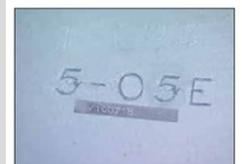
Inspect each cylinder before refilling and if any of the following defects are found, the cylinder ***must not be filled.***



- \* Leaks
- \* Cracks
- \* Bulging
- \* Serious denting or gouging
- \* Defective Valve
- \* Defective or leaking pressure relief device
- \* Evidence of physical abuse, fire or heat damage
- \* Excessive rusting or corrosion
- \* Damage to the cylinder valve, valve protection and cylinder foot rings

All DOT MF Cylinders MUST be requalified at regular intervals.

- \* A cylinder must be requalified within 12 years of the manufacturer date.
- \* **A date without a letter** indicates that a cylinder successfully passed a hydrostatic test and would need to be requalified within 12 years.
- \* **A date followed by the letter "S"** indicates the cylinder successfully passed a proof pressure test and would need to be requalified within 7 years.
- \* **A date followed by the letter "E"** indicates the cylinder successfully passed an external visual inspection and would need to be requalified within 5 years.



Relief valves in MF cylinders must be replaced within 12 years of the date of manufacture of the cylinder and every 10 years thereafter (the cylinder or valve must be marked). Relief valves must have the proper capacity for the size of the cylinder in which they are installed, and have a start to discharge pressure setting of 375 psig.