

**Cylinder Exchange (CEXR) & Forklift Cylinder Rack (INFL)
Installation Check List**

Installation Type	Installation Type	Safety Rule Description	Source NFPA 58	Source TXRRC
CEXR	INFL	<i>LICENSING REQUIREMENTS</i>		
*		Installation is properly licensed (Category P)		113.081(a)(4)
*		Copy of current license available during reg. business hours		9.7(d)
		Responsibilities of Category E, J, or other licensee providing cylinders for the Category P Licensee		
*		SOP manual in lieu of Operations Supervisor		9.17(d)
*		SOP manual provided for display @ each Cat. P outlet		9.17(d)(2)
*		Training for Cat. P Employees @ each outlet & record of employees who have received training		9.17(d)(3)
		Responsibilities of Category P Licensee		
*		Each employee involved in Cat. P activities is knowledgeable about contents of manual & has signed and dated manual		9.17(e)(1)
*		Each employee involved in Cat. P activities knows the location of manual and can show it to the inspector upon request		9.17(e)(2)
		Storage of cylinders awaiting, use, resale or exchange		
		<i>DISTANCE REQUIRMENTS</i>		
*	*	Storage Outside of Buildings -- cylinder exchange point must be at least: 5 feet from any doorway or opening in a building frequented by the public , which has at least, TWO means of EGRESS . For buildings, or sections of buildings, having only ONE means of EGRESS , at least 10 feet from the doorway or opening.	5.4.1.1	
*	*	At least 20 feet from automotive service station dispenser	8.4.1.1	
*	*	Storage Outside of Buildings -- Distances from cylinders in storage & exposures (Table 8.4.1.2)– (1) nearest important building or group of buildings, (2) line of adjoining property that may be built upon, (3) busy thoroughfares or sidewalks, (4) line of adjoining property occupied by schools, churches, hospitals, athletic fields, or other points of public gathering, (5) Dispensing station	8.4.1.2	
*	*	Distances in table 8.4.1.2 may be reduced to 0 for buildings with exterior walls rated 2-hr resistance and constructed of noncombustible materials not provided with eaves over storage.	8.4.1.3	
*	*	Storage outside of buildings -- Cylinder Exchange – min. of 3 feet horizontally from relief valve discharge to opening below discharge. Min. of 5 feet between discharge form relief valve, vent discharge and filling connection to exterior source of ignition , openings into direct-vent appliances, mechanical ventilation air intakes.	6.3.9	
	*	Storage Outside of Buildings -- Cylinder Filled On Site – min. of 3 feet horizontally from relief valve discharge to opening below discharge. Min. of 10 feet between discharge from relief valve, vent discharge and filling connection to exterior source of ignition, openings into direct-vent appliances, mechanical ventilation air intakes.	6.3.9	
*	*	Minimum of 10 feet between containers and loose or piled combustible material and weeds, long dry grass.	6.6.5.2	
	*	Storage Inside of Buildings NOT Frequented by the Public – Maximum quantity allowed in one storage location not to exceed	8.3.3.1	

		735-lb water capacity, 300lb lp-gas capacity. If more than one storage location on the same floor, in the same building min. separation of 300 feet is required.		
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		<i>PROTECTION AGAINST TAMPERING AND VEHICULAR TRAFFIC</i>		
*	*	Cylinders must be located to minimize-excessive rise in temperature, physical damage, or tampering	8.2.1.1	9.140(b)
*	*	Lockable ventilated metal locker or rack which prevents tampering with valves and pilferage of the cylinder	8.4.2.1(2)	9.140(b)
*	*	Pressure Relief Valve of cylinders in storage must communicate with the vapor space of the cylinder	8.2.1.2	
*	*	Valve protection required-caps or collars- and cylinder outlet valves must be closed, and plugged or capped per NFPA 4.2.2.3	8.2.2	
*	*	Protection against vehicular traffic: 1. Guardrailing, or 2. Guard posts 3", sch. 40 steel pipe, not more than 4' apart, anchored in concrete a min. 30" below ground, rising at least 30" aboveground, Effective 2/1/08 , for new installations, guard posts shall be installed a minimum of 18 inches from each storage rack		9.140(h)(1) 9.140(h)(2)(A)
*	*	Protection against vehicular traffic: if guard posts not anchored in concrete – min. of 4", sch. 40 steel pipe capped on top & attached by welding a min. 8"X 8" steel plate at least 1/2" thick . Must be permanently installed, Effective 2/1/08 , for new installations, guard posts shall be installed a minimum of 18 inches from each storage rack		9.140(h)(2)(B)
*	*	Guardrail or guard posts not required if: (A) rack is located a min. of 48" behind a concrete curb or wheel stop that is a min. 5" above the grade of the driveway or parking area or (B) rack is located a min. of 48" behind a concrete curb or wheel stop that is a min. 4" above the grade of the driveway or parking area, and a 4" concrete wheel stop is installed at least 12" from the 4" high curb or first 4" high wheel stop .		9.140(h)(3) (A) and (B)
*	*	All wheel stops must be secured against displacement.		9.140(h)(4)
*	*	Commission may require additional protection if exceptional circumstances exist.		9.140(f)
*	*	No cylinder storage permitted on roofs	5.2.1.5	
		<i>SIGNAGE & CYLINDER LABELS</i>		
*	*	A warning label shall be applied to all cylinders 4.2-lbs to 100lbs lp-gas capacity or less and not filled on site. Label shall include information on the potential hazards of lp-gas.	5.2.8.4(1)	
*	*	NO SMOKING (red letters) white or aluminum background. LP GAS or PROPANE & FLAMMABLE , all letters min. 1 1/4" high.		9.140(g)
*	*	Letters at least 2" high on a background of contrasting color, readily visible to the public, stating: 24-hour Emergency number		9.140(g)(12)
		<i>FIRE EXTINGUISHER</i>		
*	*	Storage locations, where the aggregate quantity of propane stored is in excess of 720 lb., shall be provided with at least one approved portable fire extinguisher having a minimum capacity of 18lb dry chemical with a B-C rating. Fire extinguisher shall be located no more than 50 feet from the storage location.	8.5.1	