

CHAPTER 23 MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES

Code Description	YES	NO	Code Section
<p>2017 New York Code Supplement</p> <p>Fire protection systems at motor fuel-dispensing facilities. Existing fire extinguishing systems at motor fuel-dispensing facilities shall be permitted to be removed in their entirety only after all existing elements of the motor fuel-dispensing systems have been upgraded to comply with all of the safety requirements in the current 2015</p>			101.2.6.4.1
<p>If any answer below is checked NO</p> <p>The facility does not comply with the 2015 Fire Code - Chapter 23 for Fuel Dispensing Operation</p>			
<p>SECTION 2301 GENERAL</p>			
<p>Scope. Automotive motor fuel-dispensing facilities, marine motor fuel-dispensing facilities, fleet vehicle motor fuel-dispensing facilities, aircraft motor-vehicle fuel-dispensing facilities and repair garages shall be in accordance with this chapter and the International Building Code, International Fuel Gas Code and International Mechanical Code. Such operations shall include both those that are accessible to the public and private operations.</p> <p>Electrical. Electrical wiring and equipment shall be suitable for the locations in which they are installed and shall comply with Section 605, NFPA 30A and NFPA 70.</p> <p>Dispensing devices shall be located as follows:</p>			2301.1
1. Ten feet (3048 mm) or more from lot lines.			2301.5
2. Ten feet (3048 mm) or more from buildings having combustible exterior wall surfaces or buildings having noncombustible exterior wall surfaces that are not part of a 1-hour fire-resistance-rated assembly or buildings having combustible overhangs.			2303.1 2303.1.1
Exception: Canopies constructed in accordance with the International Building Code providing weather protection for the fuel islands.			2303.1.2
3. Such that all portions of the vehicle being fueled will be on the premises of the motor fuel-dispensing facility.			2303.1.3
4. Such that the nozzle, when the hose is fully extended, will not reach within 5 feet (1524 mm) of building openings.			2303.1.4
5. Twenty feet (6096 mm) or more from fixed sources of ignition.			2303.1.5
Emergency disconnect switches. An approved, clearly identified and readily accessible emergency disconnect switch shall be provided at an approved location to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or other emergency. The emergency disconnect for exterior fuel dispensers shall be located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, the fuel dispensers. For interior fuel-dispensing operations, the emergency disconnect switch shall be installed at an approved location. Such devices shall be distinctly labeled as: EMERGENCY FUEL SHUTOFF. Signs shall be provided in approved locations.			2303.2
<p>DISPENSING OPERATIONS</p>			
The dispensing of fuel at motor fuel-dispensing facilities shall be conducted by a qualified attendant or shall be under the supervision of a qualified attendant at all times or shall be in accordance with Section 2304.3.			2304
Attended self-service motor fuel-dispensing facilities			2304.1
Attended self-service motor fuel-dispensing facilities shall comply with Sections 2304.2.1 through 2304.2.5.			2304.2

2304.2	<p>Attended self-service motor fuel-dispensing facilities shall have not less than one qualified attendant on duty while the facility is open for business. The attendant's primary function shall be to supervise, observe and control the dispensing of fuel. The attendant shall prevent the dispensing of fuel into containers that do not comply with Section 2304.4.1, control sources of ignition, give immediate attention to accidental spills or releases, and be prepared to use fire extinguishers.</p>
2304.2.2	<p>Approved emergency controls shall be provided in accordance with Section 2303.2.</p>
2304.2.3	<p>Dispenser operating instructions shall be conspicuously posted in approved locations on every dispenser.</p>
2304.2.4	<p>Dispensing devices shall be in clear view of the attendant at all times. Obstructions shall not be placed between the dispensing area and the attendant.</p>
2304.2.5	<p>The attendant shall be able to communicate with persons in the dispensing area at all times. An approved method of communicating with the fire department shall be provided for the attendant.</p>
2304.3	<p><u>Unattended self-service motor fuel-dispensing facilities</u></p>
	<p>Unattended self-service motor fuel-dispensing facilities shall comply with Sections 2304.3.1 through 2304.3.7</p>
2304.3.1	<p>Where approved, unattended self-service motor fuel-dispensing facilities are allowed. As a condition of approval, the owner or operator shall provide and be accountable for, daily site visits, regular equipment inspection and maintenance.</p>
2304.3.3	<p>Approved emergency controls shall be provided in accordance with Section 2303.2. Emergency controls shall be of a type that is only manually resettable.</p>
2304.3.4	<p>Dispenser operating instructions shall be conspicuously posted in approved locations on every dispenser and shall indicate the location of the emergency controls required by Section 2304.3.3.</p>
2304.3.5	<p>An approved emergency procedures sign, in addition to the signs required by Section 2305.6, shall be posted in a conspicuous location and shall read: IN CASE OF FIRE, SPILL OR RELEASE 1. USE EMERGENCY PUMP SHUTOFF 2. REPORT THE ACCIDENT! FIRE DEPARTMENT TELEPHONE NO. _____ FACILITY ADDRESS _____</p>
2304.3.6	<p>A telephone not requiring a coin to operate or other approved, clearly identified means to notify the fire department shall be provided on the site in a location approved by the fire code official</p>
2304.3.7	<p>Dispensing equipment used at unsupervised locations shall comply with one of the following: 1. Dispensing devices shall be programmed or set to limit uninterrupted fuel delivery to 25 gallons (95 L.) and require a manual action to resume delivery. 2. The amount of fuel being dispensed shall be limited in quantity by a preprogrammed card as approved.</p>
2304.4	<p><u>Portable Approved Containers</u></p>
2304.4	<p>The dispensing of flammable or combustible liquids into portable approved containers shall comply with Sections 2304.4.1 through 2304.4.3.</p>
2304.4.1	<p>Class I, II and IIIA liquids shall not be dispensed into a portable container unless such container does not exceed a 6-gallon (22.7 L.) capacity, is listed or of approved material and construction, and has a tight closure with a screwed or spring-loaded cover so designed that the contents can be dispensed without spilling. Liquids shall not be dispensed into portable or cargo tanks.</p>
2304.4.2	<p>A hose nozzle valve used for dispensing Class I liquids into a portable container shall be in compliance with Section 2306.7.6 and be manually held open during the dispensing operation.</p>
2304.4.3	<p>Portable containers shall not be filled while located inside the trunk, passenger compartment or truck bed of a vehicle.</p>

<p>Accurate daily inventory records shall be maintained and reconciled on underground fuel storage tanks for indication of possible leakage from tanks and piping. The records shall include records for each product showing daily reconciliation between sales, use, receipts and inventory on hand. Where there is more than one system consisting of tanks serving separate pumps or dispensers for a product, the reconciliation shall be ascertained separately for each tank system. A consistent or accidental loss of product shall be immediately reported to the fire code official.</p>	<p>2306.2.1.1</p>	
<p>Listed equipment. Electrical equipment, dispensers, hose, nozzles and submersible or subsurface pumps used in fuel-dispensing systems shall be listed.</p>	<p>2306.7.1</p>	
<p>Mounting of dispensers. Dispensing devices, except those installed on top of a protected above-ground tank that qualifies as vehicle-impact resistant, shall be protected against physical damage by mounting on a concrete island 6 inches (152 mm) or more in height, or shall be protected in accordance with Section 312. Dispensing devices shall be installed and securely fastened to their mounting surface in accordance with the dispenser manufacturer's instructions. Dispensing devices installed indoors shall be located in an approved position where they cannot be struck by an out-of-control vehicle descending a ramp or other slope.</p>	<p>2306.7.3</p>	
<p>Dispenser emergency shutoff valve. An approved automatic emergency shutoff valve designed to close in the event of a fire or impact shall be properly installed in the liquid supply line at the base of each dispenser supplied by a remote pump. The valve shall be installed so that the shear groove is flush with or within 1/2 inch (12.7 mm) of the top of the concrete dispenser island and there is clearance provided for maintenance purposes around the valve body and operating parts. The valve shall be installed at the liquid supply line inlet of each overhead-type dispenser. Where installed, a vapor return line located inside the dispenser housing shall have a shear section or approved flexible connector for the liquid supply line emergency shutoff valve to function. Emergency shutoff valves shall be installed and maintained in accordance with the manufacturer's instructions, tested at the time of initial installation and not less than yearly thereafter in accordance with Section 2306.2.4.</p>	<p>2306.7.4</p>	
<p>Dispenser hose. Dispenser hoses shall be not more than 18 feet (5486 mm) in length unless otherwise approved. Dispenser hoses shall be listed and approved. When not in use, hoses shall be reeled, racked or otherwise protected from damage.</p>	<p>2306.7.5</p>	
<p>Emergency breakaway devices. Dispenser hoses for Class I and II liquids shall be equipped with a listed emergency breakaway device designed to retain liquid on both sides of a breakaway point. Such devices shall be installed and maintained in accordance with the manufacturer's instructions. Where hoses are attached to hose-retrieving mechanisms, the emergency breakaway device shall be located between the hose nozzle and the point of attachment of the hose-retrieval mechanism to the hose.</p>	<p>2306.7.5.1</p>	
<p>Fuel delivery nozzles. A listed automatic-closing-type hose nozzle valve with or without a latch-open device shall be provided on island-type dispensers used for dispensing Class I, II or III liquids.</p>	<p>2306.7.6</p>	
<p>Alcohol-blended fuel-dispensing operations. The design, fabrication and installation of alcohol-blended fuel-dispensing systems shall be in accordance with Section 2306.7 and Sections 2306.8.1 through 2306.8.5.</p>	<p>2306.8</p>	
<p>Listed equipment. Dispensers shall be listed in accordance with UL 87A. Hoses, nozzles, breakaway fittings, swivels, flexible connectors or dispenser emergency shutoff valves, vapor recovery systems, leak detection devices and pumps used in alcohol-blended fuel-dispensing systems shall be listed for the specific purpose.</p>	<p>2306.8.1</p>	
<p>Compatibility. Dispensers shall be used only with the fuels for which they have been listed and which are marked on the product. Field-installed components including hose assemblies, breakaway fittings, swivel connectors and hose nozzle valves shall be provided in accordance with the listing and the marking on the unit.</p>	<p>2306.8.2</p>	

OPERATIONAL REQUIREMENTS

SECTION 2305	2305.2	Equipment maintenance and inspection. Motor fuel-dispensing facility equipment shall be maintained in proper working order at all times in accordance with Sections 2305.2.1 through 2305.2.5.
2305.2.1		Inspections. Flammable and combustible liquid fuel-dispensing and containment equipment shall be periodically inspected where required by the fire code official to verify that the equipment is in proper working order and not subject to leakage. Records of inspections shall be maintained.
2305.2.2		Repairs and service. The fire code official is authorized to require damaged or unsafe containment and dispensing equipment to be repaired or serviced in an appropriate manner.
		Dispensing devices. Where maintenance to Class I liquid dispensing devices becomes necessary and such maintenance could allow the accidental release or ignition of liquid, the following precautions shall be taken before such maintenance is begun:
2305.2.3		<ol style="list-style-type: none"> 1. Only persons knowledgeable in performing the required maintenance shall perform the work. 2. Electrical power to the dispensing device and pump serving the dispenser shall be shut off at the main electrical disconnect panel. 3. The emergency shutoff valve at the dispenser, where installed, shall be closed. 4. Vehicle traffic and unauthorized persons shall be prevented from coming within 12 feet (3658 mm) of the dispensing device.
2305.2.4		Emergency shutoff valves. Automatic emergency shutoff valves required by Section 2306.7.4 shall be checked not less than once per year by manually tripping the hold-open linkage.
2305.2.5		Leak detectors. Leak detection devices required by Section 2306.7.7.1 shall be checked and tested not less than annually in accordance with the manufacturer's specifications to ensure proper installation and operation.
2305.4		Sources of ignition. Smoking and open flames shall be prohibited in areas where fuel is dispensed. The engines of vehicles being fueled shall be shut off during fueling. Electrical equipment shall be in accordance with NFPA 70.
2305.5		Fire extinguishers. Approved portable fire extinguishers complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided and located such that an extinguisher is not more than 75 feet (22 860 mm) from pumps, dispensers or storage tank fill-pipe openings.
		Warning signs. Warning signs shall be conspicuously posted within sight of each dispenser in the fuel-dispensing area and shall state the following:
2305.6		<ol style="list-style-type: none"> 1. No smoking. 2. Shut off motor. 3. Discharge your static electricity before fueling by touching a metal surface away from the nozzle. 4. To prevent static charge, do not reenter your vehicle while gasoline is pumping. 5. If a fire starts, do not remove nozzle—back away immediately. 6. It is unlawful and dangerous to dispense gasoline into unapproved containers. 7. No filling of portable containers in or on a motor vehicle. Place container on ground before filling.
2305.7		Control of brush and debris. Fenced and diked areas surrounding above-ground tanks shall be kept free from vegetation, debris and other material that is not necessary to the proper operation of the tank and piping system. Weeds, grass, brush, trash and other combustible materials shall be kept not less than 10 feet (3048 mm) from fuel-handling equipment.

FLAMMABLE AND COMBUSTIBLE LIQUID MOTOR FUEL-DISPENSING FACILITIES

SECTION 2306

<p>Facility identification. Facilities dispensing alcohol-blended fuels shall be identified by an approved means.</p>			2306.8.3
<p>Marking. Dispensers shall be marked in an approved manner to identify the types of alcohol-blended fuels to be dispensed.</p>			2306.8.4
<p>Maintenance and inspection. Equipment shall be maintained and inspected in accordance with Section 2305.2.</p>			2306.8.5