

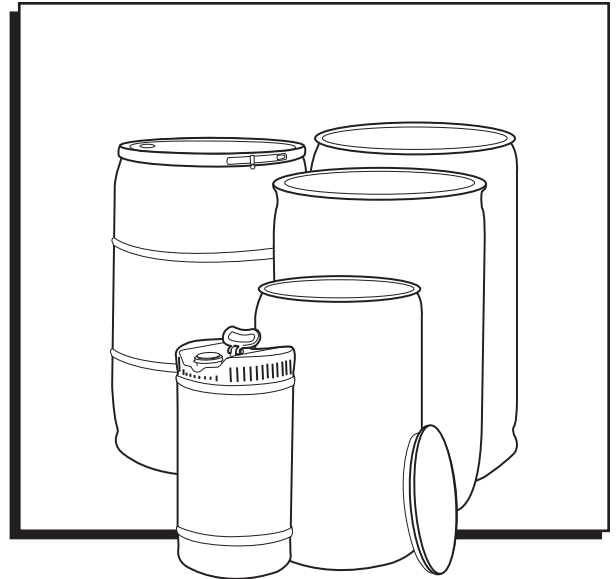


S-9945, S-10757
S-11860, S-11861
S-17007, S-17008

PLASTIC DRUMS

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INTRODUCTION

United States Department of Transportation regulations state that packaging manufacturers are required to notify each person to whom the packaging is transferred of all requirements not met at the time of transfer. This requirement is given in Title 49, Code of Federal Regulations (49 CFR), Part 178 Specifications for Packagings, § 178.2 (c). In addition, this paragraph requires the closing information to be provided to any person to whom this package is transferred who may need to close the packaging prior to re-shipment. Furthermore, it is the shipper's responsibility as set forth in § 173.22(a)(4) to ensure that these closing instructions are carried out as described. In order to ensure the instructions are followed in a manner to result in safe transport of hazardous materials the shipper is obligated, as set forth in § 172.704(a)(4)—namely, function-specific training—to train their employees in the correct way to close the packaging for shipment.

The following tables and text give examples of the parts and closing torque required to prepare the drum for shipment so that it is capable of meeting the performance standards indicated by the UN marking on the side of the packaging. Each closure is supplied with the proper gasket in accordance with the UN design type tests for the packaging supplied. In the case of removable head drums, the lids, gaskets and locking rings are supplied as tested.



NOTE: Prior to closing inspect each closure to ensure closure has the proper gasket and that both closure and gasket are in good condition. Inspect the sealing surface for damage and make sure the threads and sealing surfaces are dry.

PLASTIC DRUMS

PLASTIC NON-REMOVABLE HEAD DRUMS

1. All non-removable head, UN 1H1, Plastic Drums, 49 CFR § 178.509(a)(1), 15 gallon to 65 gallon nominal capacity supplied with plug or screw cap closures with gaskets must be closed for shipment. Use only the closures and gaskets supplied and specified in the design qualification test for the drum as indicated below:

	PART SIZE/PART NUMBER (PLUG NUMBER WITH GASKET)	TORQUE
a	2-inch buttress: L10-xx with L11-xx	20 ft.-lbs.
b	2-inch NPS: L16-xx with L12-xx	20 ft.-lbs.
c	2-inch NPS: L16RFCPP-RK faucet carrier with L12RPE-53RK	20 ft.-lbs.
d	2-inch NPS: L16R with L12EP	30 ft.-lbs.
e	2-inch ACT buttress: SA10B with A72	30 ft.-lbs. 40 ft.-lbs.
f	3/4-inch NPS: C34 with C31	6 ft.-lbs.
g	2-inch Tamper-Evident: L10TEG-RK with L11EP-RK	25 ft.-lbs.
h	2-inch Tamper-Evident: L16TEG-RK with L12EP-RK	25 ft.-lbs.
i	L10-HD with L11B4F-HD	25 ft.-lbs.
j	70x6 BCS LR10W with LR11EP	35 ft.-lbs.
k	70x6 BCS LR10W with LR11VT	35 ft.-lbs.
l	56x4 BCS LR17 with LR12EP	20 ft.-lbs.

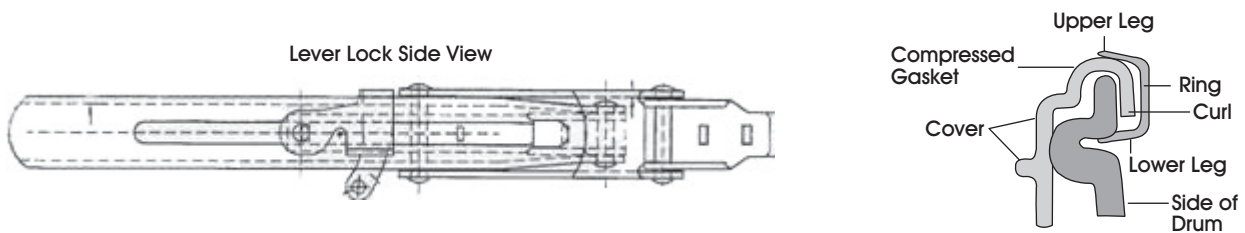


NOTE: Uline's manufacturer uses various buttress and NPS plugs under the generic part numbers L10 and L16 respectively. They are supplied with the drum with gasket-installed ready for final closing for shipment. The plug and gasket are specific to the drum as tested. Likewise the screw caps are supplied with gasket as tested. The closures must be properly installed and tightened to the torque shown or specified on the particular closing instructions for the drum supplied. Closures must be tightened to recommended torque using pre-set or variable-range machinist torque wrenches calibrated to the indicated value.

PLASTIC REMOVABLE HEAD DRUMS

	PART SIZE/PART NUMBER (PLUG NUMBER WITH GASKET)	TORQUE
a	Vanguard Lid With 2-Inch Self-Seal Type NPS Plug	9 ft.-lbs.
b	Vanguard Lid With 3/4-Inch Self-Seal Type NPS Plug	5 ft.-lbs.
c	Standard Lid With 2-Inch NPS Plug	15-20 ft.-lbs.
d	Standard Lid With 3/4-Inch NPS Plug	9 ft.-lbs.

1. All removable head, UN 1H2, Plastic Drums, 49 CFR § 178.509(a)(2), of nominal capacity 15 to 60 U.S. gallons supplied with plastic lids, gaskets and associated clamp bands, or locking rings must be closed for shipment using only the components supplied and specified in the design qualification tests according to the following installation instructions:
- Place drum lid with gasket and selected clamp band as supplied on the top opening of the drum body.
 - Firmly place lid onto top opening by applying downward pressure to lid above drum side wall.
 - While pressing down on lid engage locking mechanism of clamp band to secure the lid in place. Make sure the locking mechanism is completely latched. Insert locking tab into slots in lever lock handle.



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