

March 25, 2016



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 9386
(TWELFTH REVISION)

EXPIRATION DATE: October 31, 2018

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Meggitt Safety Systems, Inc.
Simi Valley, CA
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the manufacture, mark, sale and use of non-DOT specification welded stainless steel cylinders conforming with all regulations applicable to a DOT Specification 3HT cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this special permit. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.301(a)(1), and 173.304a(a)(1), in that non-DOT specification cylinders are not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of Meggitt Safety Systems, Inc., dated November 18, 2015, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Nitrogen, compressed	2.2	UN1066	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-DOT specification welded stainless steel cylinder having 30 cubic inches maximum water capacity and 5100 psi maximum service pressure, conforming with HTL drawings 40004710 dated January 3, 1985 or 53040019 Rev. A, dated April 25, 1988 on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA), and with DOT Specification 3HT (§ 178.44) except as follows:

§ 178.44(a) *Type, size and service pressure.*

Welded torus with end fittings girth-welded as shown in drawing not over 30 cubic inches water volume with a maximum service pressure of 5,100 pounds per square inch.

§ 178.44(b) *Authorized material.*

Corrosion resistant type 304 or 304L stainless steel.

§ 178.44(d) *Manufacture.*

(Added) Each cylinder must be subjected to a process treatment, witnessed by the independent inspector, after welding and before stress relieving. Process treatment must consist of hydrostatic pressurization at a pressure (maintained for at least 3 minutes) of at least 100 percent but not more than 110 percent of prescribed test pressure. Total and permanent expansion need not be recorded.

§ 178.44(e) *Welding or Brazing.*

Welding as prescribed in § 178.44(d) of this special permit is authorized. All pressure welds shall be 100 percent radiographed after hydrostatic test.

§ 178.44(g) *Heat treatment.*

The cylinders may be stress relieved or annealed for forming. Welded cylinders must be stress relieved at a temperature of 750 °F ± 25 °F for two hours. Stress relieving must be done after process treatment and before hydrostatic test.

§ 178.44(j) *Cycling test.*

* * *

(1) * * *

(2) Cycle test on each lot is not required, if three cylinders from the first lot are cycle tested.

(3) * * *

§ 178.44(l) *Flattening test.*

(Add) Alternate test specimen consisting of a ring section cut from the formed torus is authorized.

§ 178.44(m) *Physical tests.*

Determination of mechanical properties is not required.

§ 178.44(n) *Magnetic particle inspection.*

Magnetic particle inspection is not required. Instead, each cylinder must be inspected using apparatus and procedures for liquid penetrant examination in accordance with ASTM E-165-65. Inspection must be performed externally on the finished cylinder after hydrostatic test. Evidence of discontinuities, which in the opinion of the independent inspector may appreciably weaken or decrease the durability of the cylinder, must be cause of rejection.

§ 178.44(p) *Acceptable results of tests.*

* * *

(1) Flattening required without cracking to ten times the wall thickness of the cylinder.

(2) Physical tests: - Not required.

(3) * * *

(4) **Cycling:** The design must be qualified by cycling three cylinders from zero to service pressure at a rate not to exceed ten cycles per minute to at least 50,000 pressurizations without evidence of distortion or failure.

§ 178.44(r) *Marking.*

- (1) Instead of DOT-3HT, cylinders must be marked "DOT-SP 9386" followed by the service pressure.
- (2) Stamping of elastic expansion is not required.
- (3) Name plates. - Not required.

§ 178.44(s) *Inspector's report.*

Inspector's reports must be appropriately modified to reflect identification and compliance with this special permit.

b. TESTING - Each cylinder must be reinspected and hydrostatically retested every 5 years in accordance with § 180.205 as prescribed for DOT-3HT cylinders, except that the rejection elastic expansion criteria does not apply.

c. OPERATIONAL CONTROLS -

- (1) Cylinders are subject to the use restrictions prescribed in § 173.302a(a)(2), except they may also be used in military weapons systems. A copy of the inspector's report on the first lot required in § 178.44(e) must be submitted to the OHMSPA prior to initial shipment.
- (2) Cylinders must be shipped in strong outside packagings in conformance with § 173.301(a)(9).
- (3) A cylinder is not authorized 20 years after the date of manufacture.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

b. A person who is not a holder of this special permit, but receives a package covered by this special permit, may reoffer it for transportation provided no modification or change is made to the package and it is offered for transportation in conformance with this special permit and the HMR.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.

e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo aircraft only, and passenger-carrying aircraft.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a current copy of this special permit to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for

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Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: KFW/SGrey/kah