



U.S. Department
of Transportation

Pipeline and Hazardous
Materials Safety Administration

East Building, PHH – 25
1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

APPROVAL CA2014110014

(23rd Revision)

ISSUED BY THE COMPETENT AUTHORITY OF THE UNITED STATES

EXPIRATION DATE: April 02, 2026

1. **APPROVAL HOLDER:** Ningbo Zhengxin Fire-Fighting Equipment Co., Ltd.
Gao Qiao Village, Huangjiabu Town
Yuyao City, Zhejiang Province 315464
China
2. **REGULATORY AUTHORITY:** 49 CFR §107.807
3. **SYNOPSIS:** Ningbo ZhengXin Fire-Fighting Equipment Co., Ltd. is authorized to manufacture DOT 39, 3AL and UN ISO 7866, 11118 cylinder specifications and cylinder designs, **DOT 3AL** design(s): ZX-184.2-2216-(8.8~16.2) L-01 REV. 0, ZX-184.2-3000-(7~13) L-01, REV. 0, ZX-111.3-2015-(0.98-1.82) L, ZX-111.3-2015-(2.52-4.68) L, ZX-111.3-3000-(2.24-4.16) L, ZX-175-2216-(5.88-10.92) L, ZX-175-3000-(6.3-11.7) L, ZX-81.5-1800-(0.63-1.17)L, ZX-133.4-2216-(5.25-9.75)L, ZX-133.4-3000-(3.5-6.5)L, ZX-203.2-1800-(12.6-23.4)L, ZX-81.5-3000-(0.56-1.04)L, ZX-111.3-1800-(0.98-1.82)L, ZX-111.3-3000-(1-1.9) L, ZX-133.4-2216-(2.73-5.07) L, ZX-63.5-2216-(0.28-0.50)L, ZX-81.5-2216-(0.7-1.3)L, ZX-203.2-2216-(11.55-21.45)L, ZX-203.2-2900-(11.2-20.8)L, ZX-203.2-3300-(7.21-13.39)L, **ZX-133.4-1800-(2.38-4.42)L, ZX-175-1800-(4.69-8.71)L, ZX-175-1800-(7.0-13.0)L, ZX-203.2-1800-(9.38-17.42)L**, ZX-60-1800-(0.42-0.78) L-01, ZX-60-2900-(0.35~0.65)L-01, ZX-89-3000-(0.7-1.3)L-01, Rev.0, **ZX-70-3000-(0.28-0.52)L-01**, ZX-218.4-1800-(23.4-43.4)L-01, Rev. 0; **DOT 39 cylinder design(s):** ZX-001-537, ZX-80C-1600-0.95L; **UN ISO 7866 cylinder design(s):** ZX-60-166.7-(0.2-0.95)L-01, ZX-51-207-(0.1-0.6)L-01A-Rev.0, ZX-60-207-(0.1-0.8)L-01-Rev.0, ZX-89-207-(0.3-2.1)L-01A Rev.0, ZX-70-207-(0.1-1.1)L-01, Rev. 0 and **UN ISO 11118:2015 cylinder design(s):** ZX-74-120-(0.3-1.5)L-01, ZX-60-120-

(0.08-0.95) L-00 Rev.0., ZX-70C-120-(0.2~1.4) L-00 Rev.0, ZX-118C-120-(1.0~5.0) L-00 Rev.0, ZX-127C-120-(0.8~5.0) L-00 Rev.0 at the facility located in section 1 using the **Reverse Extrusion manufacturing method**, under the supervision of the Independent Inspection Agency identified under section 5(b) of this approval. The chemical analysis of samples were witnessed at Jiangsu Zhongji Hengya Light Alloy Co., Ltd.

4. **BASIS:** This approval is issued in response to Ningbo Zhengxin Fire-Fighting Equipment Co., Ltd.'s application dated April 21, 2025, requesting to edit the cylinder design numbers under their Competent Authority Approval.
5. **PERIOD OF VALIDITY AND CONDITIONS OF APPROVAL:** This approval does not provide relief from any requirements of the Hazardous Materials Regulations except as stated herein. This approval is valid until the posted expiration date or until terminated by the Associate Administrator for Hazardous Materials Safety.
 - a. **Approved Authority:** The holder of this approval is authorized to Manufacture and Mark the following DOT and UN ISO specifications under the supervision of an independent inspection agency approved for that purpose in accordance with § 107.803:

DOT Specification(s): DOT 39, 3AL and UN ISO 7866, 11118:2015 cylinders- Manufactured in accordance with 49 CFR 178.35, 178.46, 178.65, 178.69 - 71.

Only designs on file with the department may be manufactured and marked under the terms of this approval.

- b. **Approved Independent Inspector (IIA):** Only the following IIA is currently authorized to conduct onsite inspections at your manufacturing facility:

**Authorized Testing, Inc. - CA2015100026
2522 Kansas Avenue
Riverside, CA 92507**

- c. **Registration number:** M0832 is your assigned registration number and must be marked on all DOT and UN ISO Cylinders manufacture under the terms of this approval.

6. **SAFETY CONTROLS:**

- a. If DOT or UN ISO specification cylinder production has not been undertaken for more than six months, The Pipeline and Hazardous Materials Safety Administration must be notified prior to resumption of production. Additional sample testing and/or an onsite inspection may be required prior to resumption of production, at the discretion of PHMSA.
- b. No deviation from designs, materials, method of manufacture, inspection procedures or any technical information submitted in support of the manufacturer's or inspector's applications for approval is authorized unless approved in accordance with 6.d. of this approval.
- c. Failure to assure adequate independent inspection and verification will be grounds for termination or other enforcement action as provided for in the regulations. PHMSA must be notified in writing prior to a change in independent inspection agency service companies.
- d. Advance notice and written approval is required before any of the following can be implemented:
 - 1) Technical changes in the manufacturing processes or procedures are made.
 - 2) Changes in the approved designs on file. However, additional approval is not required for design changes to the UN ISO designs identified above, provided the changes to the design are within the previously approved design type family as identified in the applicable UN ISO specification on file with PHMSA, and as certified by the currently approved Independent Inspection Agency on file with PHMSA. New designs that fall outside the approved design type family, which are identified as a new design type family within the confines of the authorized UN ISO specification, or production of new UN ISO specification cylinder not currently authorized by PHMSA, must be approved prior to manufacture under the terms of this approval.

- 3) Adding a new UN ISO specification design, not meeting the requirements above, or which does not currently have design change criteria listed in the respective UN ISO specification (**i.e. UN ISO 11120 tubes**), or authorization to manufacture a cylinder specification not currently authorized to be manufactured under the authority of this approval.
- e. If non-technical information, submitted in your application for approval changes, Approvals and Permits must be notified, in writing, within 20 days.
7. **SPECIAL PROVISIONS:**
 - a. A current copy of this approval must be maintained and made available for examination at the location where cylinders are manufactured.
8. **GENERAL PROVISIONS:**
 - a. Failure by any person to comply with the terms and conditions of this approval and the Hazardous Materials Regulations, 49 CFR Parts 171-180, may result in the modification, suspension or termination of that person's authority to use this approval. Failure to comply may also subject that person to penalties prescribed by 49 U.S.C. §§ 5123 and 5124. This approval may be modified, suspended or terminated in its entirety if that action is justified in light of changes in circumstances or additional information not available when this approval was issued. Unless immediate modification, suspension or termination is necessary to avoid a risk of significant harm to persons or property, before action is taken, that person will be notified and provided with an opportunity to show why the proposed action should not be taken.
 - b. Each "Hazmat employee," as defined in § 171.8, who performs a function subject to this approval must be provided training on the requirements and conditions of this approval in addition to the training required by §§ 172.700 through 172.704.

c. Any person operating under the terms of this approval must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

d. **This approval, as revised, supersedes all previous versions.**

Issued in Washington, D.C.

Dated: April 28, 2025



for William Schoonover
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-30.