ICS 13.220.10
CCS C84

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 25202-2010

Foam nozzle

泡沫枪

Issued on: September 26, 2010 **Implemented on: March 1, 2011**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of China

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Foreword

Chapter 5 of this standard are mandatory, the rest are recommended. Appendix A of this standard is a normative appendix. The standard proposed by the People's Republic of China Ministry of Public Security. This standard by the National Standardization Technical Committee pump fire truck Technical Committee (SAC/TC113/SC4) centralized. This standard was drafted. Shanghai Fire Research Institute of Ministry of Public Security. The main drafters of this standard. Rong Jun, Jin Wei, Xu Xuejun, Yan Hong, Wang Yi, Zhu Yun. Foam gun

1 Scope

GB 25202-2010 is the Chinese national standard on foam nozzle, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 26 September

2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 March 2011. Classification: ICS 13.220.10, CCS C84. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions foam gun, classification and type, performance requirements, test methods, inspection rules, marking, packaging, storage, Transport and use instructions and other requirements. This standard applies to all types of foam gun to spray foam mixture to the media, does not apply to compressed air foam systems used in the bubble Foam gun.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard. GB 8181-2005 Nosepiece

GB 12514.1 fire interface - Part 1. General technical conditions for fire interface Fire Interface Part 2

GB 12514.2. Fire button within the interface and basic parameters Fire Interface Part 3

GB 12514.3. Cassette Fire Patterns and basic parameters 12514.4 fire interface - Part 4 GB . Threaded Fire Patterns and basic parameters

GB 15308 foam fire extinguishing agent (GB 15308-2006, ISO 7203-1.1995, ISO 7203.2.1995, ISO 7203-3.1999, NEQ)

GB 19156-2003 gun fire general technical conditions (DIN14366. 1984, NEQ)

GB 20031-2005 foam fire extinguishing systems and components General technical conditions

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 A portable by a single person or persons to operate and foam mixture as a fire extinguishing agent injection pipe gun.

3.2 Range range Foam gun spray foam spilled liquid continuous farthest point to 90% of the

muzzle end of the center point between the vertical projection of the ground distance.

4 Classification and models

4.1 Classification Press the expansion ratio and the structure type can be divided into.

a) low expansion foam gun;

b) expansion foam gun;

c) low multiples - in combination with multiple foam gun.

4.2 Model Foam gun model consists of. QP Foam gun Features of the code (in multiples of Z, combined with L, low multiples omitted) A mixture of rated flow, L/s Rated working pressure, MPa Z- Self-absorption (non-self-priming omitted) customize Example. a mixture of rated flow of 4L/s, rated working pressure of 0.7MPa self-priming low expansion foam gun which model. QP4/0.7Z.

5 Water pressure resistance strength performance test 6.4

6 Drop Performance Test 6.5 7 corrosion resistance test 6.6 8 jet impact resistance performance test 6.7 9 self-priming foam gun Check 6.8 10 in combination with a foam gun inspection 6.9 11 interface checks 6.10 12 non-metallic parts performance check

6.11 A.2 Test Procedure Foam gun test program shown in Figure A.1.

Note 1. The numbers in the box test item number.

Note 2. The round numbers in the drawing for the required number of test samples. Figure A.1 foam gun test procedures

5.1 Appearance requirements

5.1.1 sheet metal parts, stampings and other heavy skin surface should be no obvious mechanical damage and uneven defects.

5.1.2 welded seam should be uniform, no crack, burn, undercuts and other defects.

5.1.3 malleable surface should be free of heavy leather and scarring, shrinkage, shrinkage and other defects.

5.1.4 casting surface should be no flow marks, lack of material, cracks, blistering, peeling, and other defects.

5.1.5 Plating and coating should be uniform color, no peeling, bubbles, scratches and other defects.

5.2 Basic performance parameters The basic performance parameters of low expansion foam gun should meet the requirements in Table 1. The basic performance parameters in

expansion foam gun should comply with regulations in Table 2 set. Low multiples - in conjunction with a multiple of the basic performance parameters of the foam gun should comply with the requirements in Table 1 and Table 2. Table

1 Low expansion foam gun performance parameters The amount of the mixture Constant flow / (L/s) Rated working pressure Ceiling/MPa Expansion ratio/N (20 °C pm) 25% of dialysate time (20 °C when)/min Range/m Flow Rate Tolerance/mixing ratio% /% 0.8 5<=N < 20 >=2 >=18 >=24 >=28 ±

8 Or 3 to 4 6 to 7 or manufacture 's Published value Table 2 expansion foam gun performance parameters The amount of the mixture Constant flow / (L/s) Rated working pressure Ceiling/MPa Expansion ratio/N 50% dialysate time/min range/m Flow Rate Tolerance/mixing ratio% /% 0.8 20<=N<=200 And not less than system Manufacturer published value >=5 >=3.5 >=4.5 >=5.5 ±

5.5 Water pressure resistance strength properties Foam gun by

6.4 Water pressure resistance strength performance test, the test pressure is 1.20MPa, to maintain 5min, the gun should not have to sweat, crack Land and permanent deformation phenomena.

5.6 Performance Drop Foam gun drop by

6.5 performance test, should be no damage to the loosening and normal operation.

5.7 Corrosion Resistance Foam gun by

6.6 corrosion test, the test after the gun should be no significant corrosion damage, and it works fine.

5.8 Performance impact resistant injection Foam spray gun by

6.7 Impact resistance performance test, under continuous pressure 0.88MPa injection 10min, should be no loose structure damage.

5.9 self-priming foam gun requirements Self-priming foam gun in the suction line should be provided to prevent backflow device, the device should be able to work reliably.

5.10 combined with the requirements of the foam gun Low multiples - in conjunction with multiple foam gun, should be clearly marked out the positions of the multiple, the switching should be reliable.

5.11 Interface Requirements An interface type and size should be consistent with GB 12514.1, the provisions of GB 12514.2, GB 12514.3 and GB 12514.4, and with stereotypes Consistent choice of interface types and dimensions.

5.12 non-metallic parts performance requirements Non-metallic parts of the barrel, the