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| | LABORATORY OF FIRE EXTINGUISHING AGENTS AND EQUIPMENT | |
| | Scientific and Research centre for fire protection | CNBOP - PIB |
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TECHNICAL OPINION NO 172/BU/17

13 pages

| | |
|--|---|
| PRINCIPAL (name and address) | BOHAMET - ARMATURA Sp. J Kościelna Street 2, Ciele 86-005 Białe błota |
| TEST SAMPLE'S (product, object), description and identification | UNDERGROUND HYDRANT DN 100 PN 10/16 type HP - M |
| PRODUCT MANUFACTURER (testing object) | BOHAMET - ARMATURA Sp. J Kościelna Street 2, Ciele 86-005 Białe błota |

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| Copy of the technical opinion | 1 |
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ZA ZGODNOŚĆ Z ORYGINAŁEM
„BOHAMET-ARMATURA” SP.J.

Henryk Bogusz

„BOHAMET-ARMATURA” SP.J.

14.03.2018
DATA

POŚCISZ

wspólnik „BOHAMET-ARMATURA” s.j.

Specjalista ds. kontroli jakości i nadzoru BHP
Tomasz Chodera

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KRS 0000109728

Józefów, 12 of May 2017



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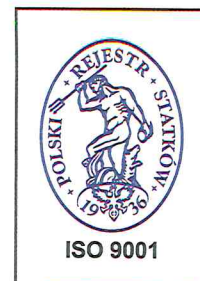


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3. TEST AND METHODS OF TESTING

3.1. Methods of testing for single-closed underground hydrant DN 100 PN 10/16 type HP-M

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| Accepted Standard | GOST P53961 – 2010 underground fire hydrants | |
|-------------------|---|---|
| L.p. | Feature tested | Technical requirements. Testing methods. ⁽¹⁾ |
| 1 | General technical requirements. | 5.1 |
| 2 | Basic parameters and characteristics. | 5.2.1, 5.2.2 |
| 3 | Construction requirements. | |
| 4 | Ergonomics requirements | |
| 5 | Mechanical strength of the hydrants. | |
| 6 | Requirements for materials and semi-finished products | |
| 7 | Completeness. | |
| 8 | Marking (signing) | |
| 9 | Packaging, storage and transport | |

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Verification of the requirements on the basis of documentation and declarations provided by the manufacturer.

¹⁾ The tests for this Technical Opinion are non-accredited by PCA.

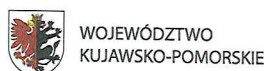
3.3 The date of the test.

Tests were done on days 09-12 of May 2017.

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4. TESTS RESULT.

Single-closed underground hydrant DN 100 PN 10/16 type A.

| L.P. | FEATURE TESTED | Requirements according to GOST P 53961-2010 | Result | statement of compliance/non-compliance with the requirements |
|--|---|---|--|--|
| 1 | Hydrant produced in accordance with the requirements of this standard. | 5.1. | positive | compatible |
| 2 | 1. Operating pressure Pp' Mpa (kgf*cm-2), no more than | 5.2.1 | PN 10 till PN 16 | compatible |
| | 2. the height of the hydrant H, mm | | from 500 to 3500 inclusive | |
| | 3. Inner diameter of the body DN | | 107 | |
| | 4. Valve adaptors, mm | | from 24 to 30 inclusive | |
| | 5. shank clearance based on by the axis, no more than | | 0,4 | |
| | 6. number of spindle revolutions to fully open the hydrant | | 14 | |
| | 7. hydraulic resistance in a hydrant S, c2*m-5 , no more than*, with H=1000 mm | | | |
| | 8. hydrant mass at H=1000 mm, kg, not more | | 35 | |
| Change of hydraulic resistance for every 250 mm of height, no more than 0,05*103*c2 *m-5 | | | | |
| The weight change for every 250 mm height - no more than 10 kg | | | | |
| The hydrant corresponds to the following reliability indicators: | | 5.2.2 | 10 years not less than a year not less than 200 cycles | compatible |
| full work period | | | | |
| - preservation of paramenters during storage throughout the period | | | | |
| fixed quantity of efficient work feasibility (cycles of action) | | | | |
| 3. | The hydrant body construction provides durability at hydraulic pressures exceeding 1.5 times the working pressure | 5.3.1 | positive no signs of cracking | compatible |

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| The hydrant construction in place keeps hermetic connections and seals under operating pressure | 5.3.2 | no signs of leakage or dripping of liquids through the walls of the body parts, as well as in places of movable connections and by sealing the stem/ positive result | compatible |
| Hydrant construction | 5.3.3 | ensures its opening and closing during the whole working pressure range | compatible |
| Hydrant equipped with a device for draining water left after work | 5.3.4 | quantity remaining water 0,00 ml / positive result | compatible |
| hydrant valve and hydrant drive | 5.3.5 | can withstand axial force not less than 3*104 H (3*103kgf) | compatible |
| construction and fixing of the hydrant connector | 5.3.6 | excludes turning the fitting when screwing in the fire rack in accordance with the National Standard P 53250 positive result | compatible |
| threaded part of the hydrant connector | 5.3.7 | Equipped with a hinged lid. The construction of the lid does not interfere with the free installation of the fire protection rack positive result | compatible |

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| | The square of stem for connecting the hydrant with the fire rack key | 5.3.8 | 22 x 22 mm; square dimensions - accurate to the 12th degree of accuracy of the State Standard 25347. The square surface has a hardness of ~28HRC. | compatible |
| 4. | Controls for closing devices. | 5.4.1 | The hydrant moves smoothly when working within a set range. Positive result. | compatible |
| | Open / close force of the hydrant valve with the fire rack key (or threaded valve with a special key). | 5.4.2 | Does not exceed 90 Nm. Positive result. | compatible |
| 5. | Production under specific climatic conditions. | 5.5.1 | Temperate and cold climate, State Standard 15150 category 1.1. Positive result. | compatible |
| | Sets and parts of a hydrant: the cycle should be understood as: full opening of the hydrant; work within no less than 1 min at operating pressure; full hydrant closure; draining the water through the drain valve. | 5.5.2 | Manufactured from materials with mechanical and anti-corrosive properties that ensure the ability to work with water when operating under specified operating conditions. Positive result. | compatible |
| | The hydrant valve ring. | 5.5.3 | Manufactured from frost-proof NBR rubber with an increased hardness of 70± Sh according to the State Standard 7338. Positive result. | compatible |

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| | Arrangements with the orderer. | 5.5.4 | The manufacturer does not use additional protective coatings (painting with powder varnish). | compatible |
| | Varnish coatings of the external surface of the hydrant. | 5.5.5 | In accordance with National Standard 9.032, with a class not lower than VI for operating conditions in temperate and cold climates, 4 according to the State Standard 9.104. Preparation of metal surfaces before painting - according to the National Standard 9.402. Positive result. | compatible |
| | Welding of hydrant flanges. Other welded joints of steel structures | 5.5.6 | In accordance with State Standard 16037, In accordance with State Standard 5264 and Manufacturer's Technical Documentation Sticking, spouts of welds, flooding, arson, shifting of welded parts, as well as other defects that affect the quality and reliability of hydrants do not occur. Positive result. | compatible |

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| 6. | Supplied materials and products used in the production of hydrant parts. | 5.6.1 | Accepted by the input control with checking their quality and necessary documentation. Positive result. | compatible |
| | Materials used. Chemical-physical properties of starting materials, hardness and roughness of their surface. | 5.6.2 | They have certificates or labels confirming their compliance with standards, technical conditions or other normative documentation. They correspond to the standards, technical conditions of their production, as well as the purpose and conditions of work of the parts of hydrants produced from them. Positive result. | compatible |
| | Moulding (casting) hydrant. Deviations in the dimensions and weight of gray cast iron castings | 5.6.3 | According to the State Standard 26358. According to the 3rd class accuracy of State Standards P 53464. Positive result. | compatible |
| | On the friction surfaces are machined die-cast parts (flanges, bodies, connector, valve body). | 5.6.4 | No occurrence of dentures, slag impurities, cracks and other defects of the cast. | compatible |

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| Mechanical and anti-corrosion properties, material of the threaded part of the junction. | 5.6.5 | They have the same good properties as the "LK1" brass properties of the State Standard or the "Br 05C5S5" bronze of the State Standard. Positive result. | compatible |
| Material of the hydrant stem. | 5.6.6 | Steel 1.4021 is just as good as marji steel 30x13 State Standard 5632. | compatible |
| Valve seals (bead seat). | 5.6.7 | Made of a material with basic properties not lower than that of the "LK1" brand of the State Standard or bronze standard brand "Br 05C5S5" of the State Standard. | compatible |
| Production technology of hydrantes with one typical size. | 5.7 | It secures full volatility of it's assembly units and parts. | compatible |
| Hydrants's components. | 5.8 | No traces of corrosion, dents, dints, cracks and other mechanical damage. Acute angles and the edges of the parts are polished. | compatible |

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| | <p>Metric threads:</p> <p>Internal threads – 7H</p> <p>External threads -8 g; (trapezoidal threads)</p> | 5.9 | <p>Made in accordance with the 24705 State Standard with tolerance fields according to the 16093 State Standard.</p> <p>Made in accordance with the 24705 State Standard with tolerance fields according to the 16093 State Standard.</p> <p>Made in accordance with the 24738 State Standard.</p> <p>Cracks, local interruptions and irregularities on the surface of the threads do not occur if their depth goes beyond the limits of the average thread diameter and their overall length exceeds half the length of the convolution.</p> | compatible |
| | Fastening of individual parts, assembly units. | 5.10 | Excludes their automatic loosening and unscrewing when using a hydrant. | compatible |
| 7. | The complete delivery of the hydrant includes: | 5.11 | Assembly products, provided for in the Product Technical Documentation, certificate, technical description, operating manual or one document replacing them, prepared in accordance with the State Standard. Positive result. | compatible |

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| 8. | Labeling. | 5.12.1 | The hydrants's labeling corresponds to the requirements of the manufacturer's Technical Documentation. Positive result. | compatible |
| | The label should contain the following information: Manufacturer's name or trade mark; contractual hydrant designation, according to the procudent system; Serial number; Height of the hydrant, mm; Inner diameter of the DN body; Year of production; Producer's country name | 5.12.2 | BOHAMET - ARMATURA UNDERGROUND HYDRANT DN 100 PN 10/16 type HP - M cat. no 11.291.100-1250 1250 mm DN 100 2017 Poland Positive result. | compatible |
| 9. | Cleansing and drying. | 5.13.1 | Before packaging, the hydrant is cleaned, the flue liners are dried. | compatible |
| | Exposed threads and unpainted surfaces of metal parts. | 5.13.2 | Covered with Press-Solidol, in accordance with the 4366 State Standard, variant of protection B3-1, B3-2. The period of validity of the hydrant maintenance is 24 months. The usage documentation should include: date of maintenance, set period of protection without re-maintenance and degreasing method. Positive result. | compatible |

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| Maintenance. | 5.13.3 | The top hole is covered with a plug and the bottom opening remains open for easier assembly. | compatible |
| Packing. | 5.13.4 | The hydrant is wrapped in a scrim foil, sealed with tape, and then placed on a pallet with wooden spacers. Other packaging may be used to ensure product safety during transport and storage. Packing is done to exclude shifting of the hydrant in the packaging during loading, transport and unloading. | compatible |
| Package. | 5.13.5 | It has the labeling in accordance with the requirements of the 14192 State Standards. | compatible |
| Technical and operational documentation. | 5.13.6 | Placed in a watertight container with a hydrant with the inscription: "Documentation". | compatible |

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5. DECLARATIONS AND RESERVATIONS

The test results refer only to the tested sample of the product / test object. Without the written permission of the Laboratories Team, the report may not be reproduced (copied), otherwise than in its entirety.

The test report has been prepared in 3 copies.

THE END.

| | | |
|--|---------------------------------|--------------------|
| Technical documentation was prepared by: | tech. Krzysztof Bocian | 12.05.2017 |
| | qualification, name and surname | date and signature |
| The person approving the technical opinion: | inż.. Daria Kubis | 12.05.2017 |
| | qualification, name and surname | date and signature |

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