

THE ENGINEERING EQUIPMENT AND MATERIALS USERS ASSOCIATION

**SPECIFICATION
FOR
PRODUCTION TESTING OF VALVES
PART 2 – PLUG VALVES**

PUBLICATION No. 171 : 1994



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45 Beech Street
London
EC2Y 8AD

Tel 0171 628 7878

Fax 0171 628 7862

e-mail sales@eemua.co.uk

website www.eemua.co.uk



THE ENGINEERING EQUIPMENT AND MATERIALS USERS ASSOCIATION

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THE ENGINEERING EQUIPMENT AND MATERIALS USERS ASSOCIATION

SPECIFICATION FOR PRODUCTION TESTING OF VALVES PART 2 - PLUG VALVES PUBLICATION No 171

AMENDMENTS No 1, APRIL 1996

The amendments listed below are authorised by the EEMUA Valves Technical Committee.

Page 7

1/1 §3.5 First line of text: change 'seals' to 'seats'.

1/2 §3.9 Note, first line: change 'BS' to 'BS'.

Page 10

1/3 §4.1.8 First line: after 'available for' insert 'and traceable to'.

1/4 §4.1.9 Second line: change '50%' to '25%'.

1/5 §4.2.1 Second line: before 'corrosion inhibitor' insert 'suitable', and delete 'approved by the purchaser'.

1/6 §4.2.2 Delete 'plus or minus 2°C in'.

Page 13

1/7 §5.1 Amend to read:

The Purchaser shall have the option to witness tests. He will normally specify his requirements in this regard, including the period of notice of commencement of testing to be given by the manufacturer, in the purchase document. It shall be the responsibility of the manufacturer to conduct all tests in full accordance with this specification regardless of any requirement for witnessing.

1/8 §5.2 Delete in its entirety; re-number subsequent sub-sections and amend relevant Contents page accordingly.

Page 14, §5.4 (was §5.5) Test Temperature and pressure

1/9 At end of first sentence delete 'measured and recorded' and substitute 'checked for compliance with 4.2.2'.

Page 17, §7.2.1

1/10 Delete second sentence and substitute:

Where the supply includes ancillary items which will be subjected to pressure under operating conditions — e.g. stem extensions, extended vents, drains, lubrication lines and small-bore valves — these shall be included in the test.

Page 21, 9.2 (Seat Tests) General

1/11 §9.2.2, second para.: delete first sentence ('The pressure balanced').

1/12 §9.2.2 Delete second and third paragraphs in their entirety.

1/13 Add new §9.2.5:

Where valves are provided with gearboxes or actuators, these shall be fitted prior to testing unless otherwise agreed with the purchaser.

Page 22, §9.3.6

1/14 Delete second sentence.

Page 25, 11.4 Acceptance Criteria

1/15 Number existing para. as '11.4.1' and add new 11.4.2:

Should a sample valve fail the test, further testing shall be carried out to determine whether the failure is of a fundamental nature or is unique to the sample valve. The extent of such further testing shall be agreed with the purchaser.

Page 27, Table 5

1/16 First column ('Seat Test'): after '5.5 bar' add 'and 1 bar'.

Page 37, APPENDIX B

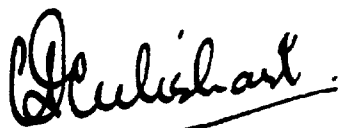
1/17 Heading: after 'PURCHASER' add 'AT ENQUIRY/PURCHASE ORDER STAGE' and amend relevant Contents page accordingly.

1/18 Delete in their entirety the line items corresponding to the following paragraph numbers: 4.1.5, 4.1.14, 7.2.1, 9.2.4 and 9.3.6.

1/19 6th line item (4.2.4), amend to read: 'Specify where maximum operating temperature for valves with austenitic steel parts $\leq 50^{\circ}\text{C}$ '.

1/20 7th line item (5.1): replace 'any waivers on' by 'requirements for'.

1/21 Add new line item (after 10.4.2): 'Advise if anti-static test required 11'.



(C I C Wishart)

Technical Secretary

THE ENGINEERING EQUIPMENT AND MATERIALS USERS ASSOCIATION
SPECIFICATION FOR THE PRODUCTION TESTING OF VALVES

PART 2 - PLUG VALVES

PUBLICATION NO. 171

ERRATA

Kindly note the following corrections and insert in your copy of the Specification:

- 1 Contents, page vi: Appendix B, Information to be Provided by Purchaser, is on p. 31, not 30.
- 2 *Ibid.*: EEMUA Publications - Summary List begins on p. 32, not 31.
- 3 Page 33, change second line of title of Publication 173 to: "Part 4 Butterfly and Globe Valves".

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FOREWORD

This specification has been developed by the EEMUA Valves Committee and is intended to improve the ex-works quality of production plug valves designed and manufactured to BS, API and other standards for valves required for use in the energy, process, oil and gas industries.

Use of Language

In this document the words 'will', 'may', 'should', 'shall' and 'must' when used in the context of actions by the purchaser or others, have specific meanings as follows:-

- i) 'Will' is used normally in connection with an action by the purchaser, rather than by a manufacturer or supplier.
- ii) 'May' is used to indicate that the manufacturer or supplier is permitted to do something, or the purchaser reserves the right to do something according to context.
- iii) 'Should' is used where a provision is preferred.
- iv) 'Shall' is used where a provision is mandatory.
- v) 'Must' is used only where a provision is a statutory requirement.

1. SCOPE

This specification states the production test requirements to be applied to each valve unless otherwise stated by the purchaser. Tests of an optional nature are also included.

The specification is applicable to flanged, butt weld, socket weld, extended weld and threaded end steel plug valves lubricated and non-lubricated from Class 150 (PN 20) to Class 2500 (PN 420) rating and nominal bore sizes from 1/4" (DN 8) to 36" (DN 900) or larger at the discretion of the purchaser. This specification, when stated in the purchase order, replaces entirely the production tests of the valve standards invoked in the order eg BS 6755 Part 1 as applied to BS 5353 for plug valves and Section 5 plus Appendix C of API 6D as applied to pipeline plug valves.

Tests outside the scope of this specification include material sampling and non-destructive testing of valve materials to verify their physical properties, chemical analysis and quality. Type approval tests, fire tests, high pressure gas tests, and tests at high and low temperature, are also excluded.