

TECHNICAL SPECIFICATION

SPECTACLE BLINDS, SPADE BLINDS AND SPACERS (AMENDMENTS/SUPPLEMENTS TO ASME B16.48)

MESC SPE 76/012

June 2013

MESC SPECIFICATION DOCUMENT



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PART I INTRODUCTION

1.1 SCOPE

This MESC SPE specifies requirements for spectacle blinds, spade blinds and spacers.

This MESC SPE shall apply in addition to the applicable MESC Buying Description, purchase order or requisition sheet.

The requirements for installation and operation of spectacle blinds, spade blinds and spacers are outside the scope of this MESC SPE.

This MESC SPE is written as amendments and supplements to ASME B16.48:2010, which are covered in Part II of this MESC SPE. The clause numbering of ASME B16.48: 2010 has been retained and any amendments are identified as 'Add', 'Modify to read' or 'Delete'. Any clauses of ASME B16.48: 2010 that are not amended or supplemented by this MESC SPE shall apply as written.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI, the distribution of this MESC SPE is confined to Shell companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them.

This MESC SPE is intended for use in oil refineries, chemical plants, gas plants, exploration and production facilities and, where applicable, supply/distribution installations.

If national and/or local regulations exist in which some of the requirements may be more stringent than in this MESC SPE the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this MESC SPE which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this MESC SPE as closely as possible.

1.3 DEFINITIONS

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project, or operation or maintenance of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for its design and construction. The Principal will generally specify the technical requirements. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

Spectacle blind	Synonymous with figure-8 blank.
Spade	Synonymous with paddle blank.
Spacer	Synonymous with paddle spacer.

1.4 CHANGES SINCE PREVIOUS EDITION

The previous edition of this MESC SPE was dated **September 2012. The change is to align reference to standard dimensions for spectacles, spades and spacers u/i DN600 (NPS24) in line with ASME B16.48 rather than to former Shell standard.**

1.5 COMMENTS ON THIS MESC SPE

Comments on this MESC SPE may be sent to the MESC SPE Administrator at MESC@shell.com. Shell staff may also post comments on this MESC SPE on the Surface Global Network (SGN) under the Standards folder.

PART II AMENDMENTS/SUPPLEMENTS TO ASME B16.48:2010

- 1 *Add:*
In addition, this MESC SPE covers requirements for spade blinds and spacers in sizes > DN 600 (NPS 24) for installation between ASME B16.47 Series A flanges in the 150, 300, 600 and 900 pressure classes.
- 2.3 *Add:*
Welding operators and welding procedures shall be qualified in accordance with ASME IX.
- 4.2 *Add:*
Flame cutting shall not be used to form the inside or outside diameters of spectacle blinds, spade blinds and spacers.
- 4.3.1 *Delete*
- 4.3.2 *Delete*
- 4.3.3 *Delete*
- 4.3.4 *Add* **Flat face blanks**
Spectacle blinds, spades and spacers shall have a flat face. The gasket seating surface finish shall be in accordance with ASME B16.5.
- 5.1 ***For MESC buying descriptions of items that make reference to shell Standard drawing S38.011, S38.042 or S38.043: modify to read:***
 - The amendments and supplements to the dimensions of spectacle blinds (Table 1 through 6) shall be in accordance with Standard Drawing S 38.011.
 - The amendments and supplements to the dimensions for spade blinds (Table 1 through 6) shall be in accordance with Standard Drawing S 38.042. This also includes the type and dimensions of the handle.
 - The amendments and supplements to the dimensions for spacers (Table 1 through 6) shall be in accordance with Standard Drawing S 38.043. This also includes the type and dimensions of the handle.
- 6 *Modify to read:*
 - Materials shall be in accordance with the MESC Buying Description.
 - Materials for handles, lifting lugs and web (tie bar) shall be equivalent to the base material of the spectacle blind, spade or spacer.
- 7.1(a) *Modify (4) to read:*
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Add:
(7) Charge number and (if heat treatment is required by the material standard) the type of heat treatment and the heat treatment batch number.
(8) Word "Spacer" or "Spade" for respectively spacers or spade blinds.
- 9 *Add:*
Each line blank shall be visually examined in accordance with ASME B31.3, Section 341.4 with acceptance criteria in accordance with Table 341.3.2 for Normal Fluid Service.
- 10 *Add* **Certification**
Unless specified otherwise, inspection and test certificates shall be supplied to the Principal.

PART III REFERENCES

In this MESC SPE, reference is made to the following publications:

NOTES:

1. Unless specifically designated by date, the latest edition of each publication shall be used, together with any amendments/supplements/revisions thereto.
2. Most of the referenced external standards are available to Shell staff on the SWW (Shell Wide Web) at <http://www.shell.com/standards>.

SHELL STANDARDS

Spectacle blinds for ASME flanges	S 38.011
Spade blinds for ASME flanges	S 38.042
Spacer for ASME flanges, for replacement of spades	S 38.043

AMERICAN STANDARDS

ASME BPVC Section IX – Welding and brazing qualifications	ASME IX
Pipe Flanges and Flanged Fittings – NPS ½ Through NPS 24 Metric/Inch Standard	ASME B16.5
Large Diameter Steel Flanges NPS 26 Through NPS 60	ASME B16.47
Line blanks	ASME B16.48:2010
Process Piping	ASME B31.3:2010

Issued by:
American Society of Mechanical Engineers
ASME International
Three Park Avenue, M/S 10E
New York, NY 10016, USA