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Piping – rekommendations for the selection, classification and inspection of materials and

Scope

Information within brackets ([...]) in this document refers to local regulations.

This standard is intended for use as support for the creation of pipe systems. In the event of ambiguities, Swedish Work Environment Authority Documents [AFS 2023:5 (design and manufacturing), AFS 2023:11 (use and control) and AFS 2023:13 chapter 12 (test pressure regulation)] apply. Recommendations for the choice of materials in pipe systems and associated components and their classification and inspection, are provided in the appendices based on the medium codes and medium data. For a summary of SSG PED pipe classes, see SSG 7829E.

In addition to the standard, there is an editable appendix (SSG 7650EBX) that makes it possible to manage local plant-specific medium codes. If necessary, the appendix can also be used to give SSG comments for future revisions of this standard. Then send the appendix to support@ssg.se.

Appendix 40 to this standard gives the user the opportunity to choose the category and module according to [AFS 2023:5]. Appendix 50 gives the user the opportunity to choose the inspection class according to [AFS 2023:11].

To support the risk assessment in design and manufacture, see SSG 7916E - Checklist: Risk analysis of pressurised equipment and for use and control see SSG 7917E - Risk assessment for use of pressurised equipment.

The media codes are updated continuously where pictograms are missing.

Changes since the previous edition

This edition differs from the previous edition in that:

- AFS 2023:5 replaced AFS 2016:1 and AFS 2023:11 replaced AFS 2017:3 on 1 january 2025.
- Text stating that thermoplastics may only be used as lining in pressure pipelines has been added to section 5.6 – ”Plastics”.
- Section 6.2 – ”Valves” provides recommendations on where to find information regarding control valves.
- Section 8.3 – ”Reconstructions and repairs of pipelines” has been added.
- Section 9.1 – ”Inspection” previously referred to operating pressure and temperature.

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- Section 9.2 – ”Joining of pressure equipment” was Plant inspection. The term Plant Inspection disappeared already with AFS 2017:3.
- SS 155410:2025 - Fuel oils - Requirements and test methods has been added to Section 11 – ”References”.
- Section 11 – ”References” has been updated with current editions.
- In all Appendices, the column for Chloride content PPM has been removed.
- Appendix 1: Media code A100 - Coal source, within waste water treatment has been added.
- Appendix 7: Media code G29 Gas, hydrogen, the text "Consider hydrogen embrittlement" has been added to the remark field.
- Appendix 11: REACH wants to classify media code K62 Sodium Chorate as Acute toxicity category 3 instead of earlier category 4, the change came into effect on September 1, 2025. Media code K106 Hydrogenperoxide, solution was classified 2/2a. Media codes for Chloramide, Citric acid and Oxalic acid solution has been added.
- Suggestions for closed bottom taper plug valves have been added as shut-off valves (Code 11 in SSG 7531E) in Appendix 12 and Appendix 13.
- Appendix 13: Media code M30 Lime sludge, before filtration was H315.
- Appendix 15 has been reviewed based on the latest requirements for fuel oils for heat production, SS 155410:2025. Fatty acids have also been added.
- Appendices 40 and 50 have been added to provide assistance with categorization according to PED and with control class of the pressure equipment according to [AFS 2023:11]. They are available as editable appendices.

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Förhandsgranskning / Preview

Contents

1 Related documents 5
2 Terms and definitions 5
3 Bases for classification 5
3.1 Criteria for new medium codes 6
3.2 Local medium codes 6
3.3 Applying for new codes 6
4 Medium data/pressure classes 6
5 Recommendations for the selection of materials 6
5.1 Corrosion 7
5.1.1 Chlorides in process solutions 7
5.1.2 Chlorides and crack formation through stress corrosion (SCC) 7
5.1.3 External corrosion 8
5.2 Cleaning agents 8
5.3 Liquid phase 8
5.4 Gas phase 8
5.5 Titanium 9
5.6 Plastics 9
6 Recommendations for the selection of components 10
6.1 Pipes and pipe fittings 10
6.2 Valves 10
6.3 Recommendations for the choice of gasket material 10
6.4 Flange guard 11
7 Recommendations for the design of insulation, marking and mounting 11
7.1 Pipe insulation 11
7.2 Pipe markings 11
7.3 Pipe supports 11
8 Manufacturing and classification 11
8.1 Pipelines > 0.5 bar 11
8.2 Pipelines ≤ 0.5 bar and transport pipelines 13
8.3 Reconstructions and repairs of pipelines 13
9 Inspection 13
9.1 Control class 13
9.2 Joining of pressure equipment 14
9.3 Service life 14
10 Materials and scope of weld testing 14
11 References 15

Appendix 1: Medium group A – Additives
Appendix 2: Fluid group B – White water
Appendix 3: Fluid group C – Condensate
Appendix 4: Fluid group D – Waste
Appendix 6: Fluid group F – Fibre raw materials and parts thereof
Appendix 7: Fluid group G – Gas
Appendix 8: Fluid group H – Hydroxyl
Appendix 11: Fluid group K – Chemicals in the fluid phase and solid form
Appendix 12: Fluid group L – Lye, lye byproducts
Appendix 13: Fluid group M – Sludges and pigments
Appendix 15: Fluid group O – Oil, oil pollutants, lubricating oil, fossil fuels

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Appendix 16: Fluid group P – Pulp and fibre suspension
Appendix 19: Fluid group S – Steam
Appendix 22: Fluid group V – Vapour
Appendix 23: Fluid group W – Water
Appendix 30: Hazard pictograms and priority principles according to the CLP ordinance
Appendix 40: Determine category and module according to PED, [AFS 2023:5]
Appendix 50: Determine control class of the pressure equipment
Appendix X: Deviant medium codes

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