

Rules for automatic water sprinkler systems SBF 120:8

Amendment 2018

This document is a summary of correctiosn and amendments to SBF 120:8. The document does not include any correction in referenced editions of SS-EN 12845, NFPA 13 or other rules. The document shall only be used in conjunction with SBF 120:8. The corrections and amendments are valid from the date of publication.

In the event of any unintended discrepancy between the Swedish original version and the English translation, the former shall prevail.

Chapter 10 Pumps

Paragraph **10.6.2.2** Change of text in the first section. Present text to be replaced completely by the following.

10.6.2.2 Positive head

(replaces the text in SS-EN 12845)

In positive head conditions, the diameter of the suction pipe shall be no less than 65 mm. Furthermore, the diameter shall be such that the velocity does not exceed 2,5 m/s within a distance of 10 times the diameter when the pump is operating at maximum demand flow.

Where more than one pump is provided, the suction pipes might only be inter-connected if they are fitted with stop valves to allow each pump to continue operating when the other is removed for maintenance. The connections shall be dimensioned as appropriate for the flow rate demanded.

Paragraph **10.6.2.3** Change of text i the first section. Present text to be replaced completely by the following.

10.6.2.3 Suction lift

(replaces the text in SS-EN 12845)

In suction lift conditions, the diameter of the suction pipe shall be no less than 80 mm. Furthermore, the diameter shall be such that the velocity does not exceed 2,5 m/s within a distance of 10 times the diameter when the pump is operating at maximum demand flow.

Where there is more than one pump set installed, the suction pipes shall not be interconnected. The height from the low water level (see 9.3.5) to the center line of the pump shall not exceed 3,2 m.

The suction pipe shall be positioned in the tank or reservoir in accordance with Figure 4 and Table 12 or Figure 5 and Table 13, as appropriate. A foot valve shall be fitted at the lowest point on the suction pipe. Each pump shall have automatic priming arrangements in accordance with 10.6.2.4.

Chapter 11 Installation type and size

11.1 Wet pipe installations

11.1.2.2

(supplements the text in SS-EN 12845)

Anti-freeze liquid (for example propylene glycol) shall fulfil the requirements in SBF 60. This is not valid for systems with ESFR-sprinklers that are listed for another specified anti-freeze liquid.

Comment: In conjunction with occurred fires there is a risk that mixtures of anti-freeze liquids ignites even though they are normally not flammable, since the flammability are affected by the drop size. See also requirements according to 20.3.4.7.

11.2 Dry pipe installations

11.2.2

(supplements the text in SS-EN 12845)

Table 11.2.2 is not applicable for EC sprinkler. The installation of EC sprinkler in dry pipe systems shall fulfill the requirements in NFPA 13 – 2016 chapter 7.2.3.

Chapter 20 Maintenance

20.3 Service, testing and maintenance schedule

20.3.4 Yearly routine

20.3.4.7

(additional requirement that are not covered in SS-EN 12845)

Systems with anti-freeze liquid not fulfilling the requirements in SBF 60 shall be drained and samples of the mixture shall be taken in the beginning of the draining and one close to the ending. Concentrations up to 30 vol.-% are accepted without further action. At concentrations 30-40 vol.-% the specifier shall be consulted and a risk analysis shall be done. Concentrations above 40 vol.-% are not accepted.

Comment: All anti-freeze liquids should be replaced with such that are fulfilling SBF 60, alternatively other methods for anti-freeze protections should be considered. This is not valid for systems with ESFR-sprinklers that are listed for another specified anti-freeze liquid

Annex H Sprinkler systems monitoring

H.2.3 Other stop valves

(supplements the text in SS-EN 12845)

The requirements for monitoring of stop valves are valid for all valves that may affect the correct function of the sprinkler system, e.g. stop valves to accelerator.