

CONTROL VALVES AND SAFETY VALVES

Technical document 079-07

Safety valves for heating installation

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CHANGE HISTORY

Revision N°	Application date	Amendments
00	15/03/2019	<p>Updated presentation and document reference.</p> <p>Substantive changes :</p> <p>Part 1 : Application rules</p> <ul style="list-style-type: none"> – Article 1.5 Désignation : only essential information is kept ; – Article 2.1 Dimensional characteristics : <ul style="list-style-type: none"> ○ Addition of a note concerning the monitoring of dimensional deviations on the connections ; ○ Updating of the normative references cited – Added items <ul style="list-style-type: none"> ○ 5 Technical documentation ○ 6 Test sequence <p>Transfer of parts 2 and 3 to a technical management appendix (Control methods) and Update of the « In-process control » and « Finished product control ».</p>
01	18/05/2022	<p>Actualisation du document technique à la suite de la révision de la norme NF P 52-001</p> <p>§5.1.1 : Addition of a specification concerning joint surfaces.</p>

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PARTIE 1. RULES FOR THE APPLICATION OF STANDARD NF P

Object

The purpose of this document is to clarify and/or complete certain articles of the standard NF P52-001, taking up the numbering of the standard and supplementing this French reference system on criteria deemed fundamental.

Completed, modified and added articles are marked in the title.

1 Application domain

2 Normative references

3 Terms and définitions

4 Désignation

5 Spécifications

5.1 Dimensional characteristic of end fitting (modified)

NOTE :

The dimensional deviations on the connections, observed during vérifications at CSTB, will be monitored during the audits of the manufacturing sites.

5.1.1 Joint span (added)

If spigot ends are used, the seal span must be sufficient to prevent the seal from being cut during assembly on the installation and must comply with the requirements of Table 1 : Dimensions of the sealing surfaces.

The seal surface of the male end connections shall be wide enough to prevent any cutting of the seal during assembly on the installation and shall comply with the requirements of table 1

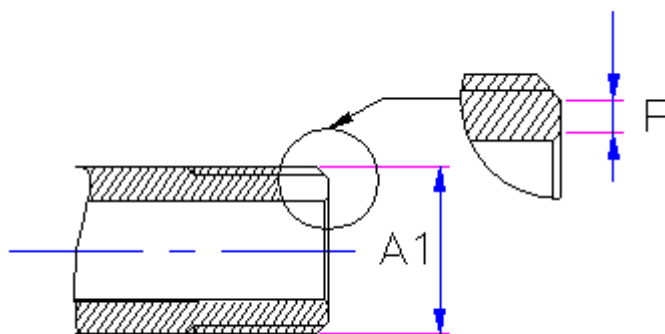


Figure 1 : Joint seat

A1 : Thread designation

P : joint seat

Table 1 : Dimensions of the sealing surfaces

DN	A1	P mini (mm)
DN8	G 1/4	1,0
DN10	G 3/8 B	1,5
DN15	G 1/2 B	1,7
DN20	G 3/4 B	2,0
DN25	G 1 B	2,2
DN32	G 1 1/4 B	2,5
DN40	G 1 1/2 B	2,5
DN50	G 2 B	3,0

5.1.2 Other connections (added)

If flanged connections are used, the dimensional characteristics of the products must comply with standards **NF EN 1759-1** et **NF EN 1092-1**

5.2 Operating characteristics of the valve in the liquid phase

5.2.1 First trigger pressure p_{dc}

5.2.2 Sealing pressure p_e

5.2.3 Set pressure p_t

5.3 Operating characteristics of the vapor phase valve

5.3.1 First trigger pressure p_{dc}

5.3.2 Closing pressure p_r

5.3.3 Set pressure p_t

5.3.4 Nominal flow pressure p_{dn}

5.3.5 Nominal flow m_n

5.3.6 Closing pressure p_r

5.4 Maneuvering device

6 Type test method

6.1 Verification of dimensional characteristics

6.2 Verification of operating characteristics

6.2.1 Tolerances and accuracy of measurement

6.2.1.1 Tolerances relating to defined parameters

6.2.1.2 *Accuracy of measuring instruments*

6.2.2 Test equipment

6.2.3 Procedure for valves operating in the liquid phase

6.2.4 Procedure for valves operating in the vapor phase

6.2.5 Number of test

6.2.6 Constancy of characteristics over time

7 Marking

8 Presentation on delivery and technical documentation

The technical documentation of the product can be dematerialized. In this case, the link (QR code, email address, etc.) must accompany the product and gives direct access to the product's technical documents.

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