

JIS

JAPANESE INDUSTRIAL STANDARD

**Crosslinked polyethylene
(XPE) pipe clamp type fittings**

JIS B 2354—1991

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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1. Scope

This Japanese Industrial standard specifies fittings for use in the connection of crosslinked polyethylene pipes (hereafter referred to as pipes) specified in JIS K 6769, hereafter referred to as fittings.

Remarks 1. The following standards are cited in this Standard.

JIS B 0202-Parallel pipe threads

JIS B 0203-Taper pipe threads

JIS B 1002-Dimensions of width across flats

JIS K 6769-Crosslinked polyethylene (XPE) pipes

2. Those units and numerical values shown in braces { } in this Standard are based on the traditional metric system of units and are shown for reference.

2. Classification

Fittings shall be classified as in Table 1 according to the kind of pipe, kind by shape, and kind by construction. However, fittings of other kinds and constructions than shown in Table 1 may be used by agreement between the parties concerned if they meet the requirements of 3.

Table 1. Kinds of pipes, kinds by shapes, and kinds by constructions

Kind of pipe ⁽¹⁾	Kind by shape ⁽²⁾	Kind by construction
PN 10	Adaptor	Mechanical incore type
	Socket	Mechanical sleeve type
PN 15	Faucet elbow	Flange type

Notes (1) Pipes shall be classified into PN 10 and PN 15 by working pressures.

(2) For the kinds of fittings by shapes, refer to Informative reference Fig. 1.

3. Performance

The performance of fittings shall be tested according to 5., and shall meet the requirements of Table 2.

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Table 2. Performance

Test item	Performance	Temperature at test	Applicable provision
Low water pressure test	No leakage or other defects	$20 \pm 15^{\circ}\text{C}$	5.1
High water pressure test	No leakage or other defects	$20 \pm 15^{\circ}\text{C}$	5.2
Hot internal pressure test	In the condition of being connected with pipe, no leakage or other defects	$95 \pm 2^{\circ}\text{C}$	5.3
Pull-out test	No slipping out or other defects	$20 \pm 15^{\circ}\text{C}$	5.4

4. Appearance and shapes and dimensions

4.1 In their appearance, fittings shall be free from cuts, longitudinal streaks, cracks, and other defects harmful to their use.

4.2 The shapes and dimensions of fittings shall be as shown in Table 3 and Table 4.

Table 3. Shapes and dimensions of mechanical incore type and flange type

