

Design Standard for Shape of Connector of High Pressure Pipe in Fuel System

KES M – F002

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1. Scope of Application

This standard shall be applicable to shape of connector of end of high-pressure pipe for fuel system used for direct or indirect injection system of diesel engine for automobiles.

2. Purpose

The purpose of this standard is to provide distinct data for design by standardizing major dimension consisting of the shape of connector of end of high-pressure pipe, which connects valve and delivery nozzle of injection pump.

3. Fuel Line and Connector

(1) Fuel Line

In general, although all of the fuel line is steel tube, in case of low-pressure pipe, flexible pipe that reinforced by steel wire can be used. In case of high-pressure pipe, thickness and inner diameter is particularly determined by injecting characteristics of injection system. If possible, the length of pipe should be shortened and length of each pipe shall be the same.

In excessive vibration, pipe shall be supported by any means.

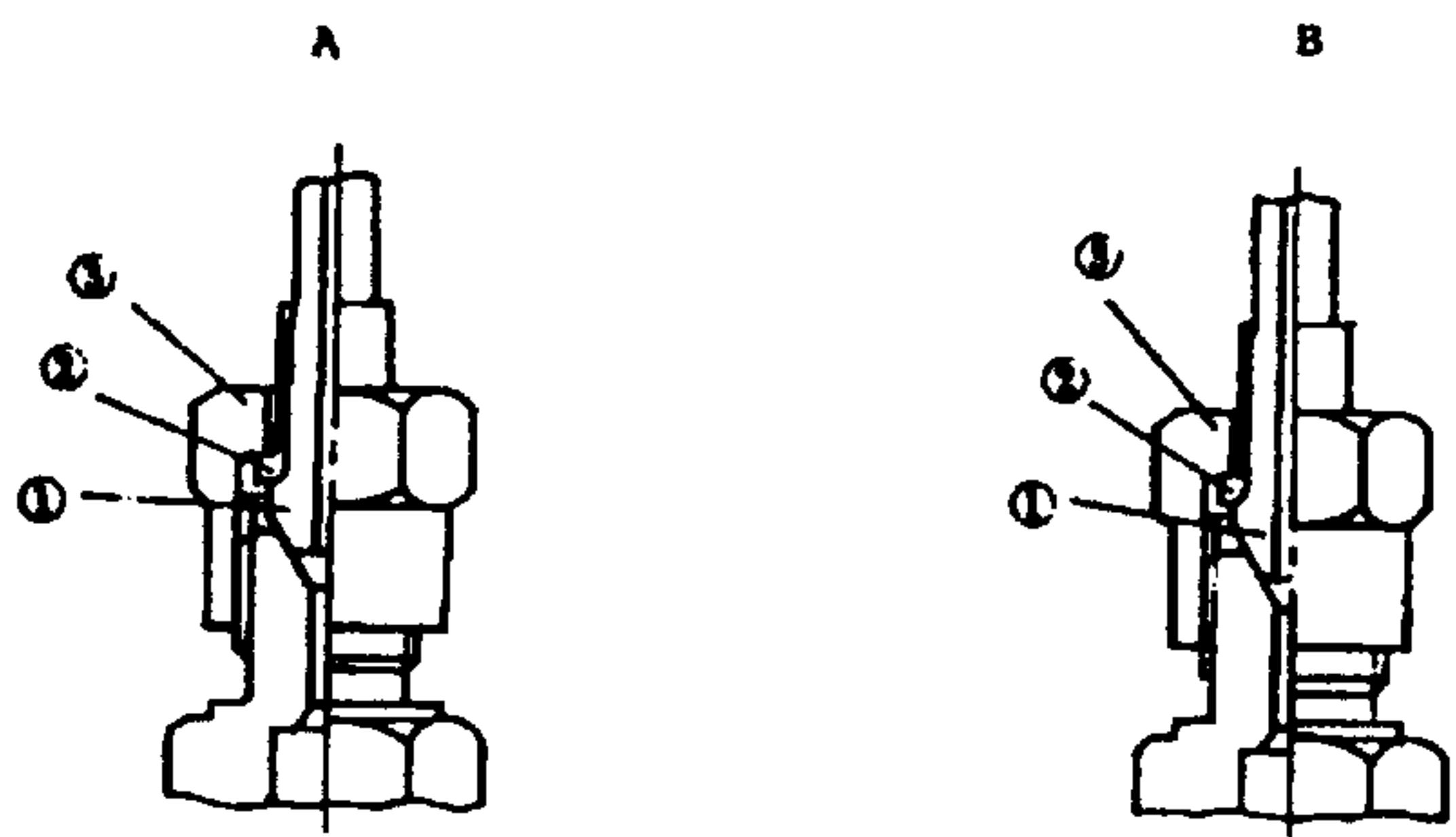
(2) Connector

Pipe linked from fuel tank to fuel gallery of injection pump shall be taken hard blazing banjo fitting.

4. Name, Mark and Connection

Table 1

Shape of connector	Parts of connector		
	Pipe line terminal connector	Sleeve	Nut
Type A (A)	Pipe line terminal connector A (AU)	Sleeve A (AS)	Nut A (AN) Nut B (BN)
Type B (B)	Pipe line terminal connector A (AU)	Sleeve A (AS)	Nut A (AN) Nut B (BN)



- 1. Pipe line terminal connector
- 2. Sleeve
- 3. Nut

Note) Each of type indicates in case of using AN nut

Figure 1 Pipe Line Terminal Connector Diagram