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ISO 13296

Diesel engines — High-pressure fuel injection pipe assemblies — General requirements and dimensions

Moteurs diesels — Lignes assemblées d'injection de carburant à haute pression — Exigences générales et dimensions

**Fifth edition
2025-05**



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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain and powertrain fluids*.

This fifth edition cancels and replaces the fourth edition (ISO 13296:2016), which has been technically revised.

The main changes are as follows:

- some combinations of dimensions of pipe end connections were added for integral 60° concave cones with a pipe outer diameter 8;
- subclause [7.5](#) on the connection end with crimped sleeve was added.

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To comply with recent exhaust gas regulations and fuel consumption regulations for internal combustion engines, the fuel injection pressure of automobile diesel engines is generally 2 000 bar¹⁾ or more. Engines of 2 700 bar are also being introduced to the market.

Since this fuel injection pressure is extremely high, the dimensions and specifications for the assembly of high-pressure fuel injection pipes are serialised. This is to account for failure due to high stress and to prevent fuel leaking from the joint.

1) 1 bar = 0,1 MPa = 10⁵ Pa; 1 MPa = 1 N/mm².