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## Road vehicles — Nozzle spouts for unleaded gasoline

*Véhicules routiers — Pistolets de remplissage pour essence sans plomb*

Reference number
ISO 9158 : 0000 (E)

## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9158 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.



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# Road vehicles — Nozzle spouts for unleaded gasoline

## 1 Scope and field of application

This International Standard specifies the dimensions of nozzle spouts on pumps for refuelling road vehicles, and their filling rates.

It applies to nozzle spouts for unleaded gasoline for road vehicles.

## 2 Reference

ISO 4130, *Road vehicles — Three-dimensional reference systems and fiducial marks — Definitions.*

## 3 Requirements

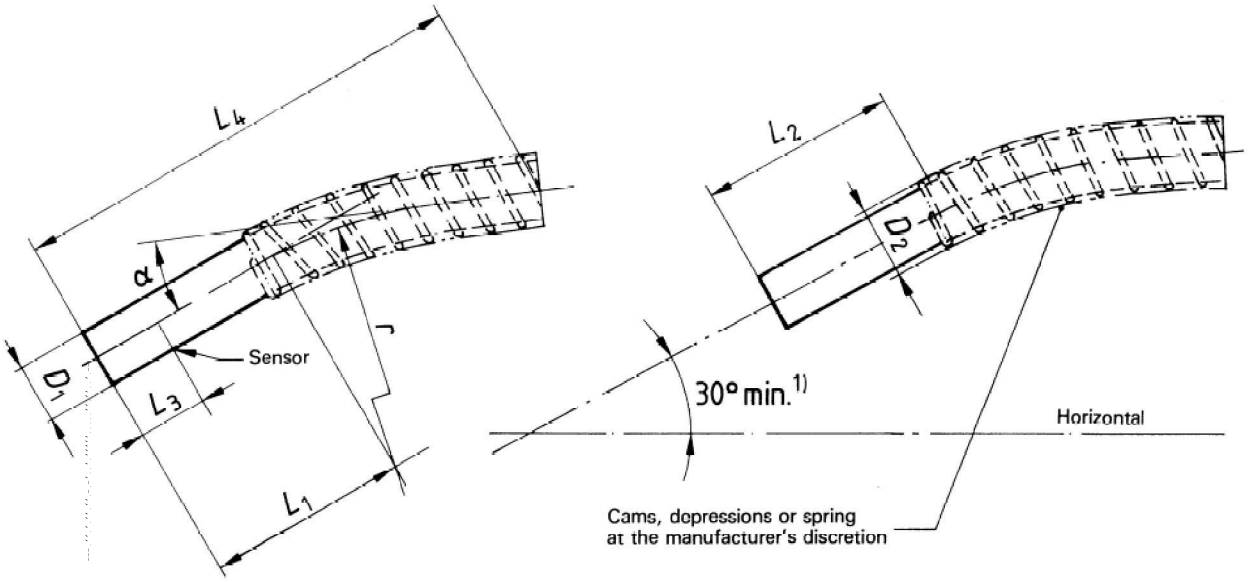
The nozzle spout shall conform to the dimensions given in the figure. The shape is at the manufacturer's discretion.

The flow rate, $q_V$, for unleaded gasoline shall be

$$q_V \leqslant 50 \text{ l/min.}$$

The figure shows a nozzle spout with a spring for safe hooking in the tank filler opening. The dimensions apply also to nozzle spouts with cams or depressions for safe hooking.

Dimensions in millimetres




| Symbol | Description | Dimension |
|---|---|---|
| $D_1$ | Nozzle outside diameter | 21,3 max. |
| $D_2$ | Anchor spring outside diameter | 30 max. |
| $L_1$ | Length of straight part of nozzle pipe | 80 to 95 |
| $L_2$ | Distance between nozzle end and anchor spring cam | $L_1 \leqslant L_2 \leqslant 95$ |
| $L_3$ | Distance between nozzle end and sensor | 22 max. |
| $L_4$ | Clearance from fuel dispensing end to any part of nozzle body | 165 min. |
| $r$ | Nozzle pipe bending radius | 100 to 250 |
| $\alpha$ | Bending angle of nozzle pipe | 21° ±1,5° |

**Figure**

1) Nozzle spout shown in its hooked filling position, and angle towards Z plane according to ISO 4130.

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**Descriptors** : refuelling, gasoline, fuel handling equipment, nozzles, dimensions.

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