



SURFACE VEHICLE STANDARD	J2050™	SEP2015
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High-Temperature Power Steering Pressure Hose		

RATIONALE

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Foreword - This SAE Standard represents the minimum quality recognized by original equipment manufacturers and hose suppliers as essential for satisfactory and safe operation by the hose itself and other coacting parts of the power steering system. The original equipment manufacturer may, at his option, add or alter tests through OEM specifications.

1. Scope - This SAE Standard covers two types of hose fabricated from textile reinforcement and synthetic rubber, assembled with end fittings for use in high-temperature automotive power steering applications as flexible connections within the temperature range of -40 to $+150$ °C (-40 to $+302$ °F) maximum and 10.3 MPa (1500 psi) maximum working pressure. These hoses are intended for use in applications where reduction in amplitude of pump pressure pulsation is required. Class A hose has a nominal OD of 19.84 mm (0.781 in). Class B hose is a lightweight hose with a nominal OD of 17.91 mm (0.705 in). This specification defines the minimum performance levels of a flexible connector in the hydraulic steering system to convey power steering fluid from the steering pump to the steering gear.

2. References

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein.

2.1.1 ASTM PUBLICATIONS - Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 380—Standard Test Methods for Rubber Hose

ASTM D 413—Test Method for Rubber Property—Adhesion to Flexible Substrate

3. Hose Construction - The construction of this hose embodies a smooth bore inner tube of suitable synthetic rubber material, reinforced with textile reinforcement and covered with a synthetic rubber outer cover. The tube shall be resistant to transmission and power steering fluids. The cover shall be abrasion, heat and weather resistant.