The Anatomy of a Hydrogen Fitting

Swagelok’s FK series fitting is engineered for reliable performance that your mobility applications demand.

Reliable Gas Seal

Two contact zones, along the tube and another along the fitting body, deliver outstanding leak-tightness.

Uncompromising Vibration Resistance

The FK series fitting maintains grip and force even under high vibration and loading via two-ferrule, hinging-colleting action.

Grip Performance Up to 1050 Bar

Low-temperature, case-hardened ferrules create high pressure ratings ideal for hydrogen storage both onboard vehicles and within refueling infrastructure.

5x Faster Installation

An innovative design allows far faster assembly than traditional cone and thread fittings. A preassembled cartridge enables installers to use common tools and requires minimal training.

17% Chromium minimum

Protects against common corrosion.

12% Nickel minimum

Defends against hydrogen embrittlement.

Nickel 28

Chromium 24

ASTM requires 16-18%

ASTM requires 10-14%

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