



**High Pressure
Refuelling Nozzle
and Receptacle
for Gaseous Hydrogen
to SAE J2600 and EIHP**

**700 bar (10150 psi)
Technology**

**TYPE
HG-004-...-Y05**



WALTHER High Pressure Refuelling Nozzle for filling with hydrogen up to 875 bar (12700 psi) with pressure-activated safety lock

Description:

The refuelling nozzle type HG-004 is the first coupling in the world for fuelling of automobiles, with gaseous hydrogen at 875 bar (12700 psi) according to current SAE J2600 guideline standards. In order to meet the challenging requirements, a new valve design, special sealing materials and a new safety type locking system were developed.

The automatic lock allows a simple, safe and reliable connection and disconnection with a push-pull motion.

A pressure-activated safety lock is integrated, which becomes effective at a working pressure of 5 bar (72,5 psi). Disconnection of the nozzle from the receptacle is only possible after completion of the filling process, i.e. when the pressure in the filling system is less than 5bar (72,5 psi). Currently, a patent is pending for the refuelling nozzle HG-004.

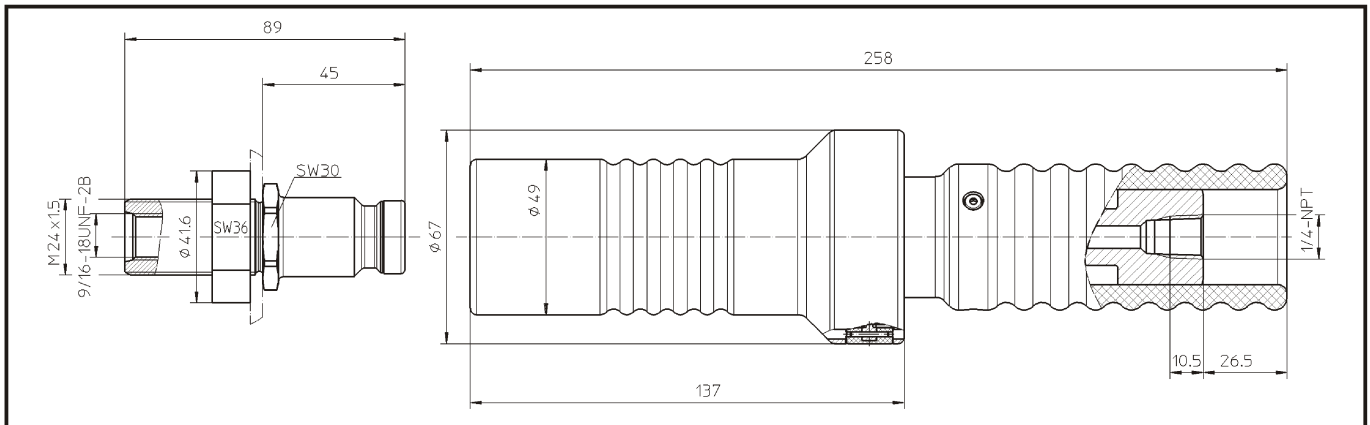
As a further safety device of the filling system, a non-destructive emergency release coupling Series HG-006 is also available (see separate leaflet).

Successful field tests for the Walther Praezision HG 700 bar (10150 psi) refuelling receptacles and nozzles have been proven with several global auto makers, refuelling equipment manufacturers and accredited third party testing laboratories. Therefore, we are presently working to meet several global certification standards.



1. Pressurized condition, active unlocking safety device

2. Depressurized condition



Technical data:

Nominal size:	4 mm
Working pressure:	700 bar (10150 psi)
Filling pressure:	max. 875 bar (12700 psi)
Working temperature:	-40° C (-40°F) to +85° C (+185 °F)
Weight:	receptacle approx. 1.400 g (3.08 lbs) nozzle approx. 310 g (0.68 lbs)
Material:	stainless steel 1.4404/1.4571 or similar

TÜV admission possible according to EIHP

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