

GENERAL ACCESSORIES
REFERENCE LEAKS



The easy way to calibrate hydrogen leak detectors

Leak testing is a matter of quantifying leaks. To be able to correctly accept/reject test objects you need to measure to a set standard. You also need to calibrate your leak detector against a reliable reference leak. The reference leaks for Adixen's Hydrogen leak detectors covers a wide range of leak rates to suit your specific application.

- **Suitable for industrial applications**
- **Simple to use**
- **Special nozzles included for all Hydrogen leak detector Hand Probes**
- **Certificate included**

For maximum accuracy, our reference leaks are equipped with a specially developed diffuser nozzle. This nozzle allows the gas to spread evenly after leaving the leak without variations caused by air convection. The distinctive diffuser holder also eliminates the risk of varying or irregular readings depending on the way the probe approaches the leak.

The reference leaks are designed to suit Adixen Hydrogen Leak Detector H2000 PLUS, but can easily be used to calibrate most gas detectors. The family of reference leaks for Hydrogen leak detectors include bigger leaks (Types A-C) and smaller leaks (Types E-F). All leaks are traceable to NIST, NMIJ, NPL, PTB etc through the "Mutual Recognition Arrangement of the BIPM".

Type

A - C Sintered stainless steel.
E - F Crimped metal capillary.

Connections

A - C

Inlet: Compression connector for 6 x 4 mm and 1/4" x 5/32" tubing. ISO G1/8" internal behind connector.

Outlet: ISO G1/8" external.

Purge valve: Threaded plug to be opened with 2.5 mm Allen key (hex drive). M5 internal behind plug. (Fits also UNF10-32).

E - F

Filling connection: 1/4" male NPT, adapter for male ISO 1/4" included.



A delivery contains the following:

Type A-C

- Reference leak assembly comprising leak and purge valve assembly
- Diffusor holder (for hand probe calibration)
- Diffusor filter (2 off)
- White probe guide ring for calibration of probes with 8 mm tip
- Black probe guide ring for calibration of probes with 10 mm tip
- Red G1/8 gasket
- Collet nut for connection to 1/4" tubing (marked red)
- 2.5 mm Allen key (hex drive) for purge valve and assembly of diffusor
- Calibration certificate
- Delivery and storage case
- Manual

Type E-F

- Reference leak assembly
- Thread adapter (NPT-ISO)
- Filter plate D=20,0 mm
- White probe guide ring for calibration of probes with 8 mm tip
- Black probe guide ring for calibration of probes with 10 mm tip
- Stop screw SK6SS M5x8 A2
- 2,5 mm Allen key (hex drive) for assembly of diffusor
- Calibration certificate



Technical specifications

TARGET FLOW FOR STANDARD LEAKS:

Type	Part nr	Nominal flow*	Gas	@Pressure	Accuracy
A	AS90420	5x10 ⁻² atm ml/s	Air	1 Bar	±2%
B	AS90421	5x10 ⁻³ atm ml/s	Air	1 Bar	±2%
C	AS90422	5x10 ⁻⁴ atm ml/s	Air	1 Bar	±2%
E	AS90427	10 g/a	R134a	Typ. 120 psi (see certificate)	±10%
F	AS90428	1 g/a	R134a	Typ. 120 psi (see certificate)	±10%

*A-C leaks are delivered within ±10% of nominal flow.
E-F leaks are delivered within ±25% of nominal flow.

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