

# GRAS 43AB

1/2" 2cc Coupler Kit According  
to IEC 60318-5



Connection: 200 V/LEMO  
Volume: 2 cc  
Dyn range: 25 dB(A) to 164 dB  
ANSI: S3.7 Type 2  
IEC: 60318-5

---

The GRAS 43AB Artificial Ear is a complete test-jig for  
acoustical measurements on hearing aids.

The GRAS 43AB Artificial Ear is a complete test jig for acoustical measurements of hearing aids in accordance with IEC 60318-5 (60126) and ANSI S3.7-1995 on insert type hearing aids in accordance with:

- IEC 60318-5 (60126) reference coupler for the measurement of hearing aids using earphones coupled to the ear by means of ear inserts.
- ANSI S3.7-1995 American National Standard for Coupler Calibration of Earphones.

The 43AB comprises:

- IEC 60318-5 (60126) 2-cm<sup>3</sup> Coupler [GRAS RA0038](#)
- [GRAS 40AG ½" Pressure Microphone](#)
- GRAS 26AC ¼" Preamplifier
- [GRAS RA0052 Test Jig](#)
- Studs and moulds for BTE and ITE instruments

The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object.

Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	25
Theoretical dynamic range upper limit with GRAS preamplifier @ +120 V / ±60 V power supply	dB	164
Set sensitivity @ 250 Hz (±2 dB)	mV/Pa	12
Set sensitivity @ 250 Hz (±2 dB)	dB re 1V/Pa	-38.5
Coupler volume	mm <sup>3</sup>	0.4 ccm
Temperature range, operation	°C / °F	- 30 to 60 / -22 to 140
Temperature coefficient @250 Hz	dB/°C / dB/°F	-0.01 / - 0.006
Humidity range non condensing	% RH	0 to 80
ANSI standard		S3.7 Type 2 (HA-1, HA-2)
IEC standard		60318-5 (former 60126)
ITU-T recommendations		P.380
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Connector type		3 m 7-pin LEMO
Weight	g / oz	1.55 / 54.675

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

## Included

<a href="#">GRAS RA0038</a>	IEC 126 2 cc Coupler
	Tube adapters
<a href="#">GRAS 40AG</a>	½" Pressure Microphone, Wide Frequency
GRAS 26AC	¼" Preamplifier
<a href="#">GRAS RA0052</a>	Test Jig

## Optional

<a href="#">GRAS 12AK</a>	Power Module
<a href="#">GRAS 42AA</a>	Pistonphone

## Miscellaneous

<a href="#">GRAS RA0196</a>	High-tension springs (set of two)
-----------------------------	-----------------------------------

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

**HEAD OFFICE, DENMARK**  
**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.gras.dk](http://www.gras.dk)  
[gras@gras.dk](mailto:gras@gras.dk)

**USA**  
**GRAS SOUND & VIBRATION**  
5750 S.W. Arctic Drive  
Beaverton, OR 97005  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.gras.us](http://www.gras.us)  
[sales@gras.us](mailto:sales@gras.us)

**CHINA**  
**GRAS SOUND & VIBRATION**  
Room 303, Building T6  
Hongqiaohui, 990, Shenchang Road  
Minhang District, Shanghai  
China, 201106  
Tel: +86 21 64203370  
[www.gras.com.cn](http://www.gras.com.cn)  
[cnsales@gras.dk](mailto:cnsales@gras.dk)



## ABOUT GRAS SOUND & VIBRATION

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

**GRAS** Sound  
& Vibration