

Vacuum gauges

FESTO



Vacuum gauges

Technical data

FESTO

Vacuum gauge VAM, EN 837-1

Temperature range
-10 ... +60 °C

Function



Pressure
-1 ... +9 bar

- Analogue display via Bourdon tube
- Vacuum gauges can be loaded up to $\frac{3}{4}$ of their full scale value under static load and up to $\frac{2}{3}$ under intermittent load conditions



General technical data			
Nominal tubing size, pressure gauge	40	63	
Type	VAM-40-V1/0	VAM-63-V1/0	VAM-63-V1/9
Pneumatic connection	R $\frac{1}{8}$	R $\frac{1}{4}$	
Operating pressure [bar]	-1 ... 0	-1 ... 0	-1 ... +9
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]		
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)		
Design	Bourdon tube pressure gauge		
Based on standard	EN 837-1		
Type of mounting	Can be screwed in		
Type of seal on threaded plug	Coating		
Mounting position	Any		
Connection position	Centre, rear side		
Ambient temperature [°C]	-10 ... +60		
Medium temperature [°C]	-20 ... +60		
Accuracy of measurement, class	2.5		
Factor, continuous load	0.75		
Factor, intermittent load	0.66		

Display			
Nominal tubing size, pressure gauge	40	63	
Type	VAM-40-V1/0	VAM-63-V1/0	VAM-63-V1/9
Scale	Double scale	Double scale	Double scale
	bar (outer)	bar (outer)	bar (outer)
	inchHg (inner)	inchHg (inner)	inchHg/psi (inner)
Indicating range [bar]	-1 ... 0	-1 ... 0	-1 ... +9
	[inchHg]	-30 ... 0	-30 ... 0
	[psi]	-	0 ... +130

Product weights [g]		
Nominal tubing size, pressure gauge	40	63
VAM	63	83

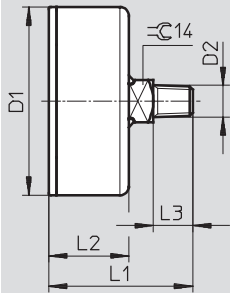
Materials	
Housing	Acrylic butadiene styrene
Window shield	Polystyrene
Threaded plug	Brass
Note on materials	RoHS-compliant

Vacuum gauges

Technical data

FESTO

Dimensions



Type	D1 Ø	D2	L1	L2	L3
VAM-40	39 ±0.5	R1/8	46 ±1	26 ±0.5	12
VAM-63-V1/0	62 ±0.5	R1/4	50 ±1	29 ±0.5	13
VAM-63-V1/9	62 ±0.5	R1/4	47.5 ±1	26.5 ±0.5	13

Ordering data

Nominal tubing size, pressure gauge	Pneumatic connection	Indicating range			Part No.	Type
		[bar]	[inchHg]	[psi]		
40	R1/8	-1 ... 0	-30 ... 0	-	537810	VAM-40-V1/0-R1/8-EN
63	R1/4	-1 ... 0	-30 ... 0	-	537811	VAM-63-V1/0-R1/4-EN
		-1 ... 9	-30 ... 0	0 ... +130	537814	VAM-63-V1/9-R1/4-EN

Vacuum gauges

Technical data

FESTO

**Vacuum gauge VAM, EN 837-1,
with red-green range**

Temperature range
-10 ... +60 °C

Function



Pressure
-1 ... 0 bar

- Analogue display via Bourdon tube
- Vacuum gauges can be loaded up to $\frac{3}{4}$ of their full scale value under static load and up to $\frac{2}{3}$ under intermittent load conditions
- The adjustable red-green range provides additional safety when monitoring compressed air



General technical data		
Nominal tubing size, pressure gauge	40	63
Type	VAM-40-V1/0-R $\frac{1}{8}$	VAM-63-V1/0-R $\frac{1}{4}$
Pneumatic connection	R $\frac{1}{8}$	R $\frac{1}{4}$
Operating pressure [bar]	-1 ... 0	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)	
Design	Bourdon tube pressure gauge	
Based on standard	EN 837-1	
Type of mounting	Can be screwed in	
Type of seal on threaded plug	Coating	
Mounting position	Any	
Connection position	Centre, rear side	
Ambient temperature [°C]	-10 ... +60	
Medium temperature [°C]	-20 ... +60	
Accuracy of measurement, class	2.5	
Factor, continuous load	0.75	
Factor, intermittent load	0.66	

Display		
Nominal tubing size, pressure gauge	40	63
Type	VAM-40-V1/0-R $\frac{1}{8}$	VAM-63-V1/0-R $\frac{1}{4}$
Scale	Single scale	Single scale
	bar	bar
Indicating range [bar]	-1 ... 0	-1 ... 0

Product weights [g]		
Nominal tubing size, pressure gauge	40	63
Type	VAM-40-V1/0-R $\frac{1}{8}$	VAM-63-V1/0-R $\frac{1}{4}$
VAM	65	90

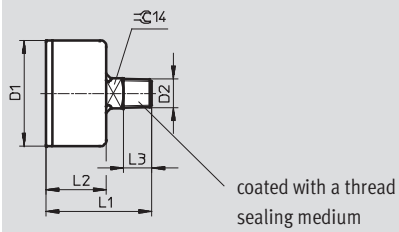
Materials	
Housing	Acrylic butadiene styrene
Window shield	Polystyrene
Segment	Polystyrene
Threaded plug	Brass

Vacuum gauges

Technical data

FESTO

Dimensions



Type	D1 Ø	D2	L1	L2	L3
VAM-40-...-E-RG	39 ±0.5	R1/8	48.5 ±1	28.5 ±0.5	12
VAM-63-...-E-RG	62 ±0.5	R1/4	53 ±1	32 ±0.5	13

Ordering data

Nominal tubing size, pressure gauge	Pneumatic connection	Indicating range	Part No.	Type
		[bar]		
40	R1/8	-1 ... 0	547842	VAM-40-V1/0-R1/8-E-RG
63	R1/4	-1 ... 0	547843	VAM-63-V1/0-R1/4-E-RG

Vacuum gauges

Technical data

FESTO

Vacuum gauge FVAM, EN 837-1

Temperature range
-10 ... +60 °C

Function



Pressure
-1 ... 0 bar

- Analogue display via Bourdon tube
- Vacuum gauges can be loaded up to $\frac{3}{4}$ of their full scale value under static load and up to $\frac{2}{3}$ under intermittent load conditions.



General technical data		
Nominal tubing size, pressure gauge	40	63
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Operating pressure [bar]	-1 ... 0	-1 ... 0
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)	
Design	Bourdon tube pressure gauge	
Based on standard	EN 837-1	
Type of mounting	Panel mounting	
Type of seal on threaded plug	Coating	
Mounting position	Any	
Connection position	Centre, rear side	
Ambient temperature [°C]	-10 ... +60	
Medium temperature [°C]	-20 ... +60	
Accuracy of measurement, class	2.5	
Factor, continuous load	0.75	
Factor, intermittent load	0.66	

Display		
Nominal tubing size, pressure gauge	40	63
Scale	Double scale	Double scale
	bar (outer)	bar (outer)
	inchHg (inner)	inchHg (inner)
Indicating range [bar]	-1 ... 0	-1 ... 0
	[inchHg] -30 ... 0	-30 ... 0

Product weights [g]		
Nominal tubing size, pressure gauge	40	63
FVAM	81	121

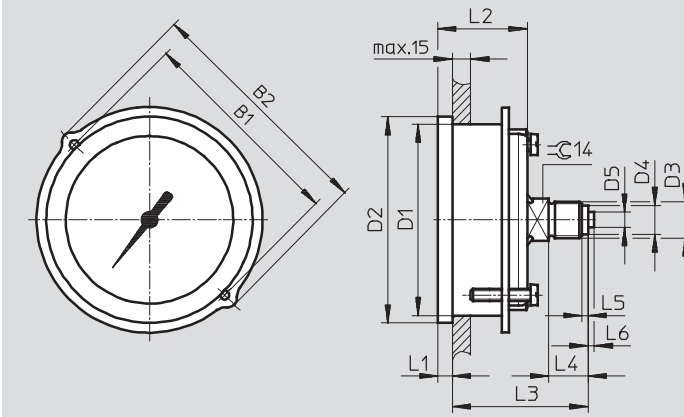
Materials	
Housing	Acrylic butadiene styrene
Window shield	Polymethylmethacrylate
Threaded plug	Brass
Note on materials	RoHS-compliant

Vacuum gauges

Technical data

FESTO

Dimensions



Type	B1	B2	D1 Ø	D2 Ø	D3	D4 Ø	D5 Ø	L1	L2	L3	L4	L5	L6
FVAM-40	48	56	40	45	G1/8	8	–	4.5	26.5	40	10	2	–
FVAM-63	70	79	63	68	G1/4	9.5	5	4.8	29.5	42.5	13	2	2

Ordering data

Nominal tubing size, pressure gauge	Pneumatic connection	Indicating range		Part No.	Type
		[bar]	[inchHg]		
40	G1/8	–1 ... 0	–30 ... 0	537812	FVAM-40-V1/0-G1/8-EN
63	G1/4	–1 ... 0	–30 ... 0	537813	FVAM-63-V1/0-G1/4-EN

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com