

Vacuum gauges

FESTO



Vacuum gauges

Technical data

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Vacuum gauge VAM, DIN EN 837-1

Function



-  - Temperature range
-10 ... +60 °C

-  - 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	Dried air, lubricated or unlubricated, vacuum		
Design	Bourdon tube pressure gauge		
Based on standard	DIN 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		
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		
	bar (outer)		
	inHg/psi (inner)		
Indicating range [bar]	-1 ... 0	-1 ... 0	-1 ... +9
[inHg]	-30 ... 0	-30 ... 0	-30 ... 0
[psi]	-	-	0 ... +130

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

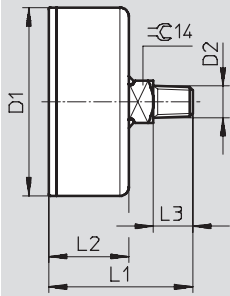
Materials	
Housing	Acrylic butadiene styrene
Window shield	Polystyrene
Threaded plug	Brass

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Dimensions



Type	D1 Ø	D2	L1	L2	L3
VAM-40	39 ±0.5	R1/8	46 ±1	26 ±0.5	12
VAM-63	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]	[inHg]	[psi]		
40	R1/8	-1 ... 0	-30 ... 0	-	537 810	VAM-40-V1/0-R1/8-EN
63	R1/4	-1 ... 0	-30 ... 0	-	537 811	VAM-63-V1/0-R1/4-EN
		-1 ... 9	-30 ... 0	0 ... +130	537 814	VAM-63-V1/9-R1/4-EN

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**Vacuum gauge VAM, DIN 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	Dried air, lubricated or unlubricated	
Design	Bourdon tube pressure gauge	
Based on standard	DIN 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	
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 bar	
Indicating range [bar]	-1 ... 0	-1 ... 0

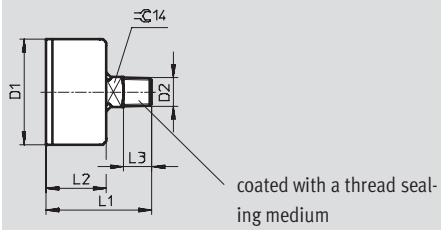
Product weights [g]		
Nominal tubing size, pressure gauge	40	63
Type	VAM-40-V1/0-R $\frac{1}{8}$	VAM-63-V1/0-R $\frac{1}{4}$
VAM	65	90

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

Vacuum gauges

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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	50.5 ±1	29.5 ±0.5	13

Ordering data

Nominal tubing size, pressure gauge	Pneumatic connection	Indicating range	Part No.	Type
		[bar]		
40	R1/8	-1 ... 0	547 842	VAM-40-V1/0-R1/8-E-RG
63	R1/4	-1 ... 0	547 843	VAM-63-V1/0-R1/4-E-RG

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Vacuum gauge VAM

Function



-  - Temperature range
-40 ... +60 °C

-  - 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
Type	VAM-40-V1/0	VAM-63-V1/0
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Operating pressure [bar]	-1 ... 0	-1 ... 0
Operating medium	Filtered compressed air, lubricated or unlubricated, vacuum	
Design	Bourdon tube pressure gauge	
Conforms to	DIN EN 837-1	
Type of mounting	Can be screwed in	
Connection position	Centre, rear side	
Ambient temperature [°C]	-40 ... +60	
Corrosion resistance classification CRC ¹⁾	4	
Accuracy of measurement, class	2.5	
Protection class	IP43	

1) CRC4: Corrosion resistance class to Festo standard 940 070

Components with very heavy corrosion exposure. Components in contact with aggressive media, e.g. in food or chemical industries. These applications must, if necessary, be verified by special tests with the media concerned.

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

Product weights [g]		
Nominal tubing size, pressure gauge	40	63
VAM	63	112

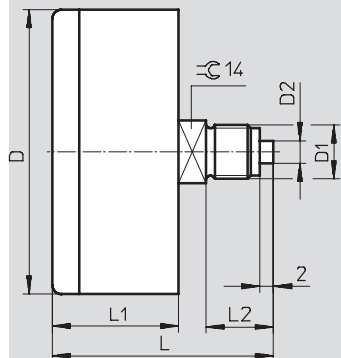
Materials	
Housing	High-alloy stainless steel
Window shield	Polycarbonate
Note on material	Free of copper and PTFE

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Dimensions



Type	D Ø	D1	D2 Ø	L	L1	L2
VAM-40	40	G $\frac{1}{8}$	8	43.5	27.5	10
VAM-63	63	G $\frac{1}{4}$	5	51	30	15

Ordering data

Nominal tubing size, pressure gauge	Pneumatic connection	Indicating range		Part No.	Type
		[bar]	[inHg]		
40	G $\frac{1}{8}$	-1 ... 0	-30 ... 0	183 521	VAM-40-V1/0- $\frac{1}{8}$ -CT
63	G $\frac{1}{4}$	-1 ... 0	-30 ... 0	183 522	VAM-63-V1/0- $\frac{1}{4}$ -CT

Vacuum gauges

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Vacuum gauge FVAM, DIN EN 837-1

Function



-  - Temperature range
-10 ... +60 °C

-  - 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	Dried air, lubricated or unlubricated, vacuum	
Design	Bourdon tube pressure gauge	
Based on standard	DIN 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	
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 bar (outer) inHg/psi (inner)	
Indicating range [bar]	-1 ... 0	-1 ... 0
[inHg]	-30 ... 0	-30 ... 0

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

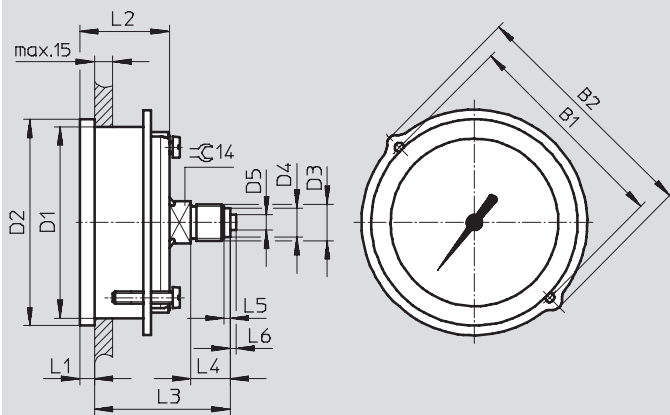
Materials	
Housing	Acrylic butadiene styrene
Window shield	Polymethylmethacrylate
Threaded plug	Brass

Vacuum gauges

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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	G $\frac{1}{8}$	8	–	4.5	26.5	40	10	2	–
FVAM-63	70	79	63	68	G $\frac{1}{4}$	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]	[inHg]		
40	G $\frac{1}{8}$	–1 ... 0	–30 ... 0	537 812	FVAM-40-V1/0-G $\frac{1}{8}$ -EN
63	G $\frac{1}{4}$	–1 ... 0	–30 ... 0	537 813	FVAM-63-V1/0-G $\frac{1}{4}$ -EN