

Pressure gauge MA, DIN EN 837-1

Technical data

FESTO

Function



-  - Temperature range
-20 ... +60 °C



Technical data					
Nominal size	40			50	63
Pneumatic connection	R $\frac{1}{8}$	R $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
Operating medium	Liquid media				
	Gaseous media				
	Not permitted: Oxygen				
	Not permitted: Acetylene				
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]	-20 ... +60				
Accuracy of measurement, class	2.5				
Factor, continuous load	0.75				
Factor, intermittent load	0.66				
Protection class	IP43				
For MS series service units	MS4	MS4/MS6/MS12		-	-
Weight [g]	60	70	70	70	80

Materials	
Housing	Acrylic butadiene styrene
Sight glass	Polystyrene
Threaded plug	Brass

Indicating range						
Nominal size		40			50	63
Pneumatic connection		R $\frac{1}{8}$	R $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
[bar]	[psi]					
0 ... 1	0 ... 14.5	-	-	-	-	■
0 ... 2.5	0 ... 36	-	-	-	■	■
0 ... 6	0 ... 87	-	■	■	-	-
0 ... 10	0 ... 145	■	■	■	■	■
0 ... 16	0 ... 232	■	■	■	■	■
0 ... 25	0 ... 360	■	■	■	-	-

Individual units
Pressure gauges

4.8

Pressure gauge MA, DIN EN 837-1

Technical data



Dimensions Download CAD data → www.festo.com/en/engineering

MA-40, R¹/₈

1 PTFE seal for MA-40-25-1/8-EN

MA-40, R¹/₄

1 PTFE seal

MA-40, G¹/₄

1 With pre-fitted PTFE sealing ring

MA-50/63, G¹/₄

Type	D1 Ø	L1	L2
MA-50	49	47.5	26.5
MA-63	61.5	48.5	27.5

Pressure gauge MA, DIN EN 837-1

Technical data

FESTO

Ordering data					
Nominal size	Pneumatic connection	Indicating range		Part No.	Type
		[bar]	[psi]		
40	R $\frac{1}{8}$	0 ... 10	0 ... 145	162 835	MA-40-10- $\frac{1}{8}$ -EN
		0 ... 16	0 ... 232	162 836	MA-40-16- $\frac{1}{8}$ -EN
		0 ... 25	0 ... 360	526 167	MA-40-25- $\frac{1}{8}$ -EN
	R $\frac{1}{4}$	0 ... 6	0 ... 87	187 078	MA-40-6-R $\frac{1}{4}$ -EN
		0 ... 10	0 ... 145	187 079	MA-40-10-R $\frac{1}{4}$ -EN
		0 ... 16	0 ... 232	187 080	MA-40-16-R $\frac{1}{4}$ -EN
		0 ... 25	0 ... 360	187 081	MA-40-25-R $\frac{1}{4}$ -EN
	G $\frac{1}{4}$	0 ... 6	0 ... 87	183 899	MA-40-6-G $\frac{1}{4}$ -EN
		0 ... 10	0 ... 145	183 900	MA-40-10-G $\frac{1}{4}$ -EN
		0 ... 16	0 ... 232	183 901	MA-40-16-G $\frac{1}{4}$ -EN
		0 ... 25	0 ... 360	183 902	MA-40-25-G $\frac{1}{4}$ -EN
50	G $\frac{1}{4}$	0 ... 2.5	0 ... 36	162 837	MA-50-2,5- $\frac{1}{4}$ -EN
		0 ... 10	0 ... 145	162 838	MA-50-10- $\frac{1}{4}$ -EN
		0 ... 16	0 ... 232	162 839	MA-50-16- $\frac{1}{4}$ -EN
63	G $\frac{1}{4}$	0 ... 1	0 ... 14.5	162 844	MA-63-1- $\frac{1}{4}$ -EN
		0 ... 2.5	0 ... 36	162 845	MA-63-2,5- $\frac{1}{4}$ -EN
		0 ... 10	0 ... 145	162 840	MA-63-10- $\frac{1}{4}$ -EN
		0 ... 16	0 ... 232	162 841	MA-63-16- $\frac{1}{4}$ -EN

Pressure gauge MA, DIN EN 837-1, with red-green range

Technical data

FESTO

Function



Temperature range
–20 ... +60 °C



The adjustable red-green range provides additional safety when monitoring compressed air.

With the two red segments above the pressure gauge scale along with the printed green segment it is possible to individually limit the desired pressure range.

This coloured demarcation enables you to recognise immediately whether or not the pressure is in the permitted tolerance range.

Technical data			
Nominal size	40	50	63
Pneumatic connection	R ¹ / ₈	R ¹ / ₄	R ¹ / ₄
Operating medium	Liquid media		
	Gaseous media		
	Not permitted: Oxygen		
	Not permitted: Acetylene		
Design	Bourdon tube pressure gauge		
Type of mounting	Can be screwed in		
Connection position	Centre, rear side		
Ambient temperature [°C]	–20 ... +60		
Accuracy of measurement, class	2.5		
Factor, continuous load	0.75		
Factor, intermittent load	0.66		
Protection class	IP43		
For MS series service units	MS4	MS4/MS6/MS12	–
Weight [g]	62	76	88

Materials	
Housing	Acrylic butadiene styrene
Sight glass	Polymethylmethacrylate

Indicating range			
Nominal size	40	50	63
Pneumatic connection	R ¹ / ₈	R ¹ / ₄	R ¹ / ₄
[bar]			
0 ... 2.5	■	■	■
0 ... 10	■	■	■
0 ... 16	■	■	■
[MPa]			
0 ... 0.25	–	■	■
0 ... 1	■	■	■
0 ... 1.6	■	■	■
[psi]			
0 ... 36	–	■	■
0 ... 145	■	■	■
0 ... 232	■	■	■

Pressure gauge MA, DIN EN 837-1, with red-green range

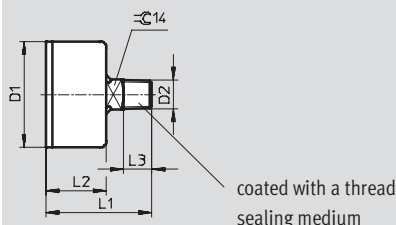
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com/en/engineering

MA-...-E-RG



Type	D1 Ø ±0.5	D2	L1 ±1	L2 ±0.5	L3
MA-40-...-E-RG	39	R ¹ / ₈	46	28	10
MA-50-...-E-RG	49	R ¹ / ₄	49	28	13
MA-63-...-E-RG	61.5	R ¹ / ₄	50.5	29.5	13

Ordering data

Nominal size		Pneumatic connection	Indicating range		Part No.	Type
Display unit [bar]						
40	R1/8	0 ... 2.5	546 963	MA-40-2,5-R1/8-E-RG	 New	
		0 ... 10	525 725	MA-40-10-R1/8-E-RG		
		0 ... 16	525 726	MA-40-16-R1/8-E-RG		
50	R1/4	0 ... 2.5	525 727	MA-50-2,5-R1/4-E-RG		
		0 ... 10	525 728	MA-50-10-R1/4-E-RG		
		0 ... 16	525 729	MA-50-16-R1/4-E-RG		
63	R1/4	0 ... 2.5	525 730	MA-63-2,5-R1/4-E-RG		
		0 ... 10	525 731	MA-63-10-R1/4-E-RG		
		0 ... 16	525 732	MA-63-16-R1/4-E-RG		
Display unit [MPa]						
40	R1/8	0 ... 1	526 778	MA-40-1,0-R1/8-MPA-E-RG		
		0 ... 1.6	526 779	MA-40-1,6-R1/8-MPA-E-RG		
50	R1/4	0 ... 0.25	526 780	MA-50-0,25-R1/4-MPA-E-RG		
		0 ... 1	526 781	MA-50-1,0-R1/4-MPA-E-RG		
		0 ... 1.6	526 782	MA-50-1,6-R1/4-MPA-E-RG		
63	R1/4	0 ... 0.25	526 783	MA-63-0,25-R1/4-MPA-E-RG		
		0 ... 1	526 784	MA-63-1,0-R1/4-MPA-E-RG		
		0 ... 1.6	526 785	MA-63-1,6-R1/4-MPA-E-RG		
Display unit [psi]						
40	R1/8	0 ... 145	526 786	MA-40-145-R1/8-PSI-E-RG		
		0 ... 232	526 787	MA-40-232-R1/8-PSI-E-RG		
50	R1/4	0 ... 36	526 788	MA-50-36-R1/4-PSI-E-RG		
		0 ... 145	526 789	MA-50-145-R1/4-PSI-E-RG		
		0 ... 232	526 790	MA-50-232-R1/4-PSI-E-RG		
63	R1/4	0 ... 36	526 791	MA-63-36-R1/4-PSI-E-RG		
		0 ... 145	526 792	MA-63-145-R1/4-PSI-E-RG		
		0 ... 232	526 793	MA-63-232-R1/4-PSI-E-RG		

Pressure gauge MA

Technical data

FESTO

Function



-  - Temperature range
-20 ... +60 °C



Technical data							
Nominal size	23	27		40		50	63
Pneumatic connection	R $\frac{1}{8}$	M5	R $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
Operating medium	–	Liquid media					–
	Gaseous media						
	Not permitted: Oxygen						
	Not permitted: Acetylene						
Design	Bourdon tube pressure gauge						Capsule pressure gauge
Type of mounting	Threaded						
Connection position	Centre, rear side						
Ambient temperature [°C]	–20 ... +60	0 ... +60		–20 ... +60			
Accuracy of measurement, class	5	4		2.5			1.6
Factor, continuous load	–	0.75					1
Factor, intermittent load	–	0.66					0.9
Protection class	–	IP43					
For D series service units	–	MICRO	–	MINI	–	MIDI/MAXI	–
Weight [g]	27	11	8	60	70	70	180

Materials							
Nominal size	23	27		40		50	63
Pneumatic connection	R $\frac{1}{8}$	M5	R $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
Housing	Brass	Polyamide		Acrylic butadiene styrene		Steel	
Dial cover	Polycarbonate	Polystyrene		Polystyrene		Polymethylmethacrylate	
Threaded plug	Brass	Brass	Polyamide	Brass		Brass	

Pressure gauge MA

Technical data

FESTO

Indicating range								
Nominal size		23	27		40		50	63
Pneumatic connection		R1/8	M5	R1/8	G1/8	G1/4	G1/4	G1/4
[bar]	[psi]							
0 ... 0.25	0 ... 3.6	–	–	–	–	–	–	■
0 ... 6	0 ... 87	■	–	–	–	–	–	–
0 ... 10	0 ... 145	■	–	–	■	–	■	–
0 ... 16	0 ... 232	■	–	■	■	–	■	–
0 ... 25	0 ... 360	–	–	■	–	–	–	–
[bar]								
0 ... 10		–	■	–	–	–	–	–
[MPa]								
0 ... 0.6		–	–	–	–	■	–	–
0 ... 1		–	■	–	■	■	■	–
0 ... 1.6		–	–	–	■	■	■	–
0 ... 2.5		–	–	–	–	■	–	–
[psi]								
0 ... 160		–	■	–	–	–	–	–

Pressure gauge MA

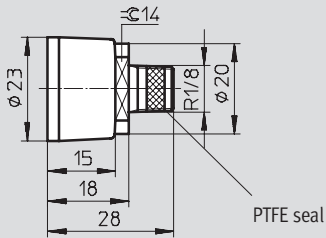
Technical data

FESTO

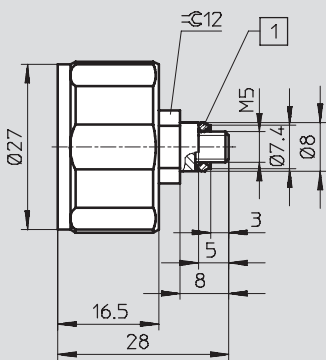
Dimensions

Download CAD data → www.festo.com/en/engineering

MA-23

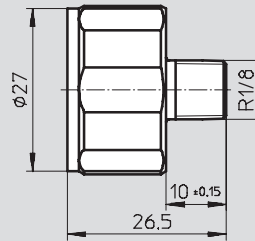


MA-27, M5

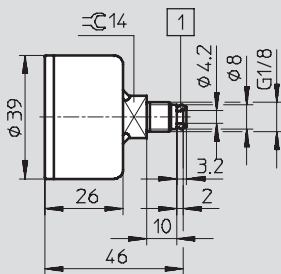


1 With pre-fitted polyamide sealing ring

MA-27, R1/8

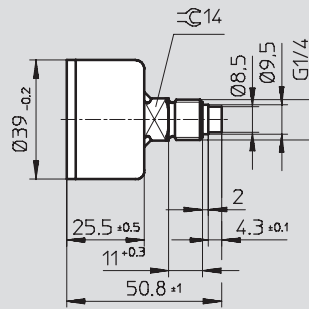


MA-40, G1/8

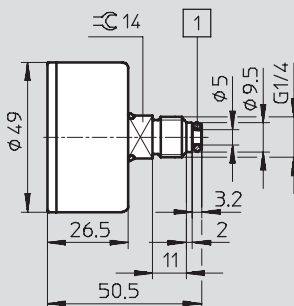


1 With pre-fitted aluminium sealing ring

MA-40, G1/4

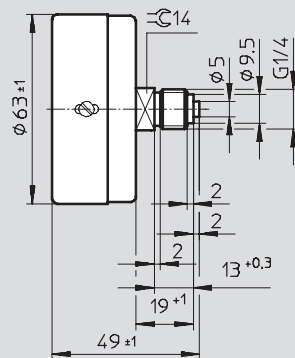


MA-50



1 With pre-fitted aluminium sealing ring

MA-63



Pressure gauge MA

Technical data

FESTO

Ordering data					
Nominal size	Pneumatic connection	Indicating range		Part No.	Type
		[bar]	[psi]		
23	R1/8	0 ... 6	0 ... 87	183 896	MA-23-6-R1/8
		0 ... 10	0 ... 145	183 897	MA-23-10-R1/8
		0 ... 16	0 ... 232	183 898	MA-23-16-R1/8
27	R1/8	0 ... 16	0 ... 232	541 733	MA-27-16-R1/8
		0 ... 25	0 ... 360	541 734	MA-27-25-R1/8
40	G1/8	0 ... 10	0 ... 145	359 874	MA-40-10-1/8
		0 ... 16	0 ... 232	345 395	MA-40-16-1/8
50	G1/4	0 ... 10	0 ... 145	359 873	MA-50-10-1/4
		0 ... 16	0 ... 232	356 759	MA-50-16-1/4
63	G1/4	0 ... 0.25	0 ... 3.6	7 169	MA-63-0,25

Ordering data					
Nominal size	Pneumatic connection	Indicating range			Part No. Type
Display unit [bar]					
27	M5	0 ... 10			526 323 MA-27-10-M5
Display unit [MPa]					
27	M5	0 ... 1			526 324 MA-27-1,0-M5-MPA
40	G1/8	0 ... 1			192 732 MA-40-1-G1/8-MPA
		0 ... 1.6			192 733 MA-40-1,6-G1/8-MPA
	G1/4	0 ... 0.6			184 285 MA-40-0,6-G1/4-MPA
		0 ... 1			184 286 MA-40-1,0-G1/4-MPA
		0 ... 1.6			184 287 MA-40-1,6-G1/4-MPA
		0 ... 2.5			184 288 MA-40-2,5-G1/4-MPA
50	G1/4	0 ... 1			192 734 MA-50-1-G1/4-MPA
		0 ... 1.6			192 735 MA-50-1,6-G1/4-MPA
Display unit [psi]					
27	M5	0 ... 160			527 405 MA-27-160-M5-PSI

Precision pressure gauge MAP, DIN EN 837-1

Technical data

FESTO

Function



-  - Temperature range
-20 ... +60 °C

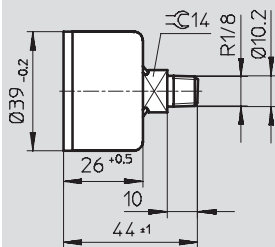


Technical data					
Nominal size		40			
Pneumatic connection		R1/8			
Operating medium		Liquid media			
		Gaseous media			
		Not permitted: Oxygen			
		Not permitted: Acetylene			
Design		Bourdon tube pressure gauge			
Indicating range	[bar]	0 ... 1	0 ... 4	0 ... 6	0 ... 16
	[psi]	0 ... 15	0 ... 58	0 ... 87	0 ... 232
Conforms to		DIN EN 837-1			
Type of mounting		Can be screwed in			
Connection position		Centre, rear side			
Ambient temperature		[°C]	−20 ... +60		
Accuracy of measurement, class		1.6			
Factor, continuous load		0.75			
Factor, intermittent load		0.66			
Protection class		IP43			
Weight		[g]	60		

Materials	
Housing	Acrylic butadiene styrene
Sight glass	Polystyrene
Threaded plug	Brass

Dimensions

Download CAD data → www.festo.com/en/engineering



Ordering data				
Nominal size	Pneumatic connection	Indicating range		Part No. Type
		[bar]	[psi]	
40	R1/8	0 ... 1	0 ... 15	161 126 MAP-40-1-1/8-EN
		0 ... 4	0 ... 58	162 842 MAP-40-4-1/8-EN
		0 ... 6	0 ... 87	161 127 MAP-40-6-1/8-EN
		0 ... 16	0 ... 232	161 128 MAP-40-16-1/8-EN

Pressure gauge MA-QS

Technical data

FESTO

Function



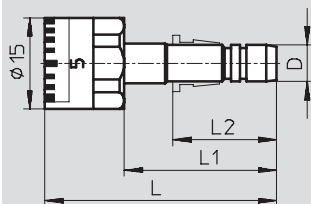
-  - Temperature range
0 ... +60 °C



Technical data			
Nominal size	15		
Pneumatic connection	QS-4	QS-6	QS-8
Operating medium	Filtered compressed air, lubricated or unlubricated		
Design	Bourdon tube pressure gauge without measuring mechanism		
Indicating range [bar]	0 ... 8		
Ambient temperature [°C]	0 ... +60		
Weight [g]	8	9.5	12.5

Materials	
Housing	Nickel plated steel

Dimensions Download CAD data → www.festo.com/en/engineering



Dimensions and ordering data							
Nominal size	Pneumatic connection D	L	L1	L2	Indicating range	Part No.	Type
					[bar]		
15	QS-4	36	23	15	0 ... 8	153 383	MA-15-10-QS-4
	QS-6	38	25	17		153 384	MA-15-10-QS-6
	QS-8	34	21	18.5		153 385	MA-15-10-QS-8

Individual units
Pressure gauges

4.8

Flanged pressure gauge FMA, DIN EN 837-1

Technical data

FESTO

Function



-  - Temperature range
-20 ... +60 °C



Technical data			
Nominal size	40	50	63
Pneumatic connection	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
Operating medium	Liquid media		
	Gaseous media		
	Not permitted: Oxygen		
	Not permitted: Acetylene		
Design	Bourdon tube pressure gauge		
Conforms to	DIN EN 837-1		
Type of mounting	Panel mounting		
Connection position	Centre, rear side		
Ambient temperature [°C]	-20 ... +60		
Accuracy of measurement, class	2.5		
Factor, continuous load	0.75		
Factor, intermittent load	0.66		
Protection class	IP43		
Weight [g]	80	100	120

Materials	
Housing	Polystyrene
Sight glass	Styrene acrylonitrile copolymer
Threaded plug	Brass

Indicating range			
Nominal size	40	50	63
Pneumatic connection	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{1}{4}$
[bar]	[psi]		
0 ... 2.5	0 ... 36	-	■
0 ... 10	0 ... 145	■	■
0 ... 16	0 ... 232	■	■

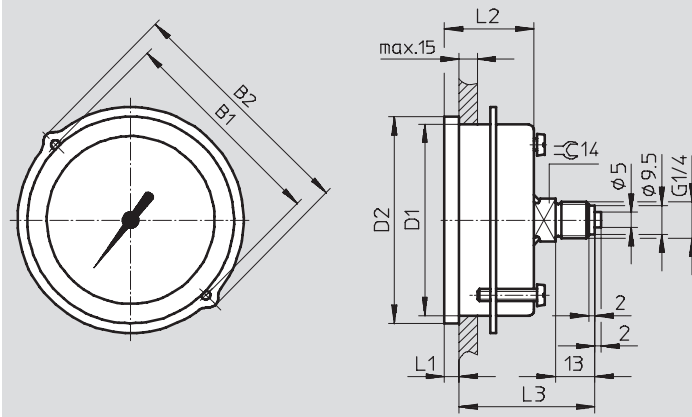
Flanged pressure gauge FMA, DIN EN 837-1

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com/en/engineering



Type	B1	B2	D1 Ø	D2 Ø	L1	L2	L3
FMA-40	48	56	40	45	4.5	26.5	43
FMA-50	57	66	49.5	54	4.5	26.8	43.3
FMA-63	70	79	63	68	4.8	29.5	42.5

Ordering data

Nominal size	Pneumatic connection	Indicating range		Part No.	Type
		[bar]	[psi]		
40	G1/4	0 ... 10	0 ... 145	159 596	FMA-40-10-1/4-EN
		0 ... 16	0 ... 232	159 597	FMA-40-16-1/4-EN
50	G1/4	0 ... 2.5	0 ... 36	159 598	FMA-50-2,5-1/4-EN
		0 ... 10	0 ... 145	159 599	FMA-50-10-1/4-EN
		0 ... 16	0 ... 232	159 600	FMA-50-16-1/4-EN
63	G1/4	0 ... 2.5	0 ... 36	159 601	FMA-63-2,5-1/4-EN
		0 ... 10	0 ... 145	159 602	FMA-63-10-1/4-EN
		0 ... 16	0 ... 232	159 603	FMA-63-16-1/4-EN

Flanged pressure gauge FMA

Technical data

FESTO

Function



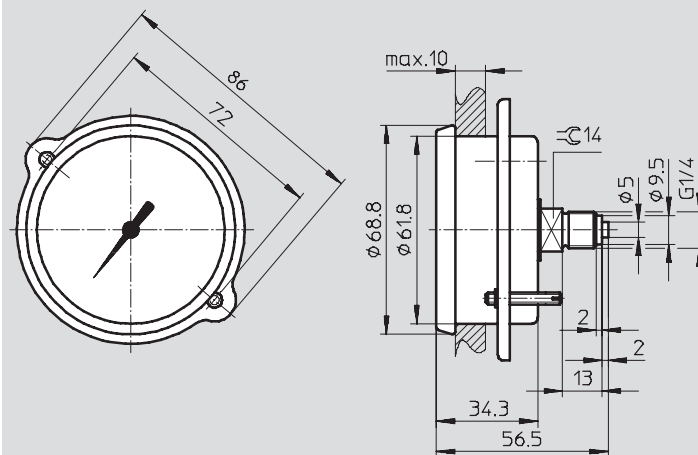
-  - Temperature range
-10 ... +60 °C



Technical data		
Nominal size	63	
Pneumatic connection	G $\frac{1}{4}$	
Operating medium	Gaseous media	
Design	Aneroid pressure gauge	
Indicating range	[bar]	0 ... 0.25
	[psi]	0 ... 3.6
Type of mounting	Panel mounting	
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	
Protection class	IP43	
Weight	[g]	240

Materials	
Housing	Steel
Sight glass	Polymethylmethacrylate
Threaded plug	Brass

Dimensions Download CAD data → www.festo.com/en/engineering



Ordering data				
Nominal size	Pneumatic connection	Indicating range		Part No. Type
		[bar]	[psi]	
63	G $\frac{1}{4}$	0 ... 0.25	0 ... 3.6	225 783 FMA-63-0,25-C

Precision pressure gauge FMAP, DIN EN 837-1

Technical data

FESTO

Function



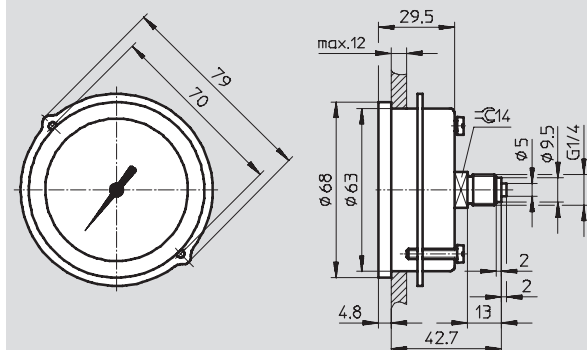
-  - Temperature range
-20 ... +60 °C



Technical data					
Nominal size		63			
Pneumatic connection		G1/4			
Operating medium		Liquid media			
		Gaseous media			
		Not permitted: Oxygen			
		Not permitted: Acetylene			
Design		Bourdon tube pressure gauge			
Indicating range	[bar]	0 ... 1	0 ... 4	0 ... 6	0 ... 16
	[psi]	0 ... 15	0 ... 58	0 ... 87	0 ... 232
Conforms to		DIN EN 837-1			
Type of mounting		Panel mounting			
Connection position		Centre, rear side			
Ambient temperature		[°C]	−20 ... +60		
Accuracy of measurement, class		1.0			
Factor, continuous load		0.75			
Factor, intermittent load		0.66			
Protection class		IP43			
Weight		[g]	120		

Materials	
Housing	Polystyrene
Sight glass	Styrene acrylonitrile copolymer
Threaded plug	Brass

Dimensions Download CAD data → www.festo.com/en/engineering



Ordering data				
Nominal size	Pneumatic connection	Indicating range		Part No. Type
		[bar]	[psi]	
63	G1/4	0 ... 1	0 ... 15	161 129 FMAP-63-1-1/4-EN
		0 ... 4	0 ... 58	162 843 FMAP-63-4-1/4-EN
		0 ... 6	0 ... 87	161 130 FMAP-63-6-1/4-EN
		0 ... 16	0 ... 232	161 131 FMAP-63-16-1/4-EN