

Pressure gauges



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FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



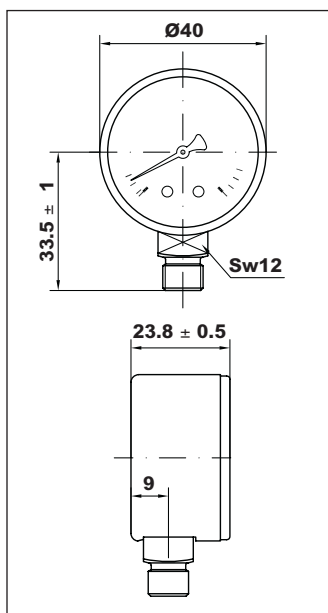
M1-ABS 40

EX F+R 200 DN40

Dry Plastic Case DN40 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.042 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 40	PA1102DI00	0-1.6 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1203DI00	0-2.5 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1204DI00	0-4 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA120623	0-6 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1210DI00	0-10 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1216DI00	0-16 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1225DI00	0-25 bar/psi	G 1/8 B	240/240
M1-ABS 40		0-40 bar/psi	G 1/8 B	240/240
M1-ABS 40		0-60 bar/psi	G 1/8 B	240/240
M1-ABS 40		0-100 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1354DI00	0-160 bar/psi	G 1/8 B	240/240
M1-ABS 40		0-250 bar/psi	G 1/8 B	240/240
M1-ABS 40	PA1362DI00	0-315 bar/psi	G 1/8 B	240/240
M1-ABS 40		0-400 bar/psi	G 1/8 B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



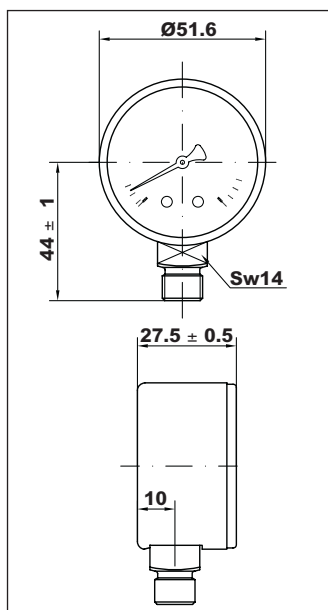
M1-ABS 50

EX F+R 200 DN50

Dry Plastic Case DN50 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span cl. 2.5, cl. 1.6 on request
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.073 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 50	PA2101EJ00	-1/0 bar/inHg	G 1/4 B	100/100
M1-ABS 50	PA2101DJ00	0-1 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA210214	0-1.6 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA2203DJ00	0-2.5 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA2204DJ00	0-4 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA220624	0-6 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA2210DJ00	0-10 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA2216DJ00	0-16 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA222514	0-25 bar/psi	G 1/4 B	100/100
M1-ABS 50	PA224014	0-40 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-60 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-100 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-160 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-250 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-315 bar/psi	G 1/4 B	100/100
M1-ABS 50		0-400 bar/psi	G 1/4 B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



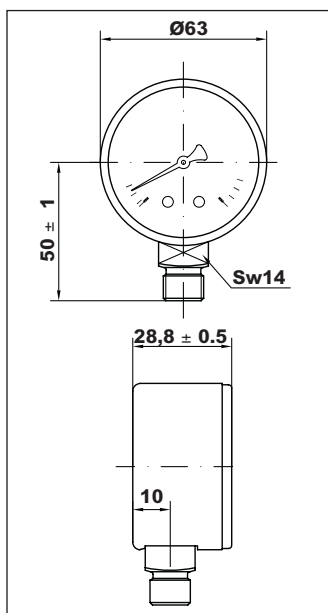
M1-ABS 63

EX F+R 200 DN63

Dry Plastic Case DN63 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.089 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 63	PA3101DJ00	-1/0 bar/inHg	G 1/4 B	100/100
M1-ABS 63	PA3101DJ01	0-1 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3102DJ00	0-1.6 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3203DJ00	0-2.5 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3204DJ00	0-4 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3206DJ00	0-6 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3210DJ02	0-10 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3216DJ00	0-16 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3225DJ00	0-25 bar/psi	G 1/4 B	100/100
M1-ABS 63	PA3240DJ00	0-40 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-60 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-100 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-160 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-250 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-315 bar/psi	G 1/4 B	100/100
M1-ABS 63		0-400 bar/psi	G 1/4 B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



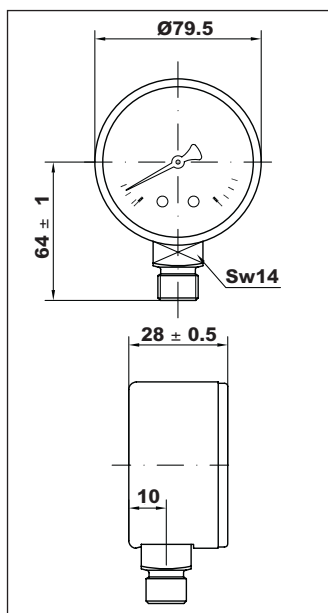
M1-ABS 80

EX F+R 200 DN80

Dry Plastic Case DN80 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span cl. 2.5, cl. 1.6 on request
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.128 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 80		-1/0 bar/inHg	G3/8B	1/50
M1-ABS 80		0-1 bar/psi	G3/8B	1/50
M1-ABS 80		0-1.6 bar/psi	G3/8B	1/50
M1-ABS 80		0-2.5 bar/psi	G3/8B	1/50
M1-ABS 80		0-4 bar/psi	G3/8B	1/50
M1-ABS 80		0-6 bar/psi	G3/8B	1/50
M1-ABS 80	PA4210DC00	0-10 bar/psi	G3/8B	1/50
M1-ABS 80		0-16 bar/psi	G3/8B	1/50
M1-ABS 80		0-25 bar/psi	G3/8B	1/50
M1-ABS 80		0-40 bar/psi	G3/8B	1/50
M1-ABS 80		0-60 bar/psi	G3/8B	1/50
M1-ABS 80		0-100 bar/psi	G3/8B	1/50
M1-ABS 80		0-160 bar/psi	G3/8B	1/50
M1-ABS 80		0-250 bar/psi	G3/8B	1/50
M1-ABS 80		0-315 bar/psi	G3/8B	1/50
M1-ABS 80		0-400 bar/psi	G3/8B	1/50

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



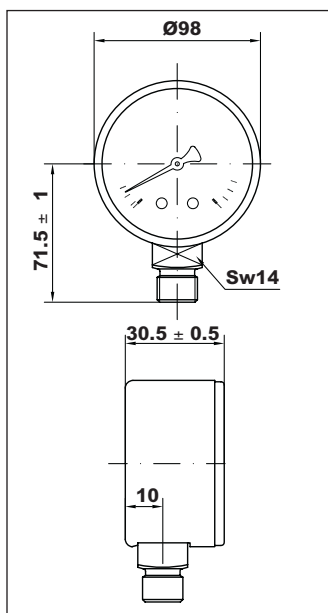
M1-ABS 100

EX F+R 200 DN100

Dry Plastic Case DN100 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.175 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 100		-1/0 bar/inHg	G 1/2 B	1/30
M1-ABS 100	PA5101DL00	0-1 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-1.6 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-2.5 bar/psi	G 1/2 B	1/30
M1-ABS 100	PA5204DD01	0-4 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-6 bar/psi	G 1/2 B	1/30
M1-ABS 100	PA5210DD01	0-10 bar/psi	G 1/2 B	1/30
M1-ABS 100	PA5216BD01	0-16 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-25 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-40 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-60 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-100 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-160 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-250 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-315 bar/psi	G 1/2 B	1/30
M1-ABS 100		0-400 bar/psi	G 1/2 B	1/30

M1-ABS 40/50/63/80/100



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M1-ABS 40/50/63/80/100

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer, (QA+I)

M1-ABS 40/50/63/80/100

Options subject to minimum quantity

Z - Restrictor 0.5mm

M1-ABS 50/63/80/100

Options subject to minimum quantity

MS - silicone movement for dampened pointer travel

M1-ABS 40/50/63/80/100

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



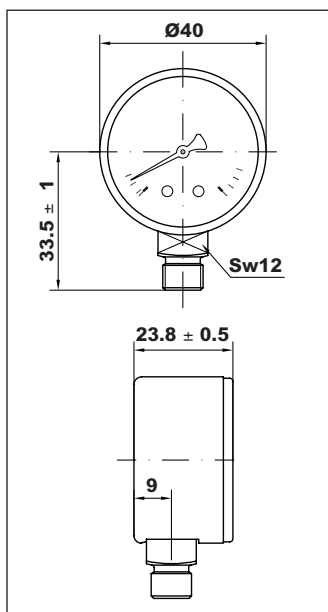
M1-ABS 40/R

EX F+R 201 DN40

Dry Plastic Case DN40 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.042 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 40/R		0-2.5 bar	G1/8B	240/240
M1-ABS 40/R		0-4 bar	G1/8B	240/240
M1-ABS 40/R		0-6 bar	G1/8B	240/240
M1-ABS 40/R	PA1210BA00	0-10 bar	G1/8B	240/240
M1-ABS 40/R		0-16 bar	G1/8B	240/240
M1-ABS 40/R		0-25 bar	G1/8B	240/240
M1-ABS 40/R		0-40 bar	G1/8B	240/240

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



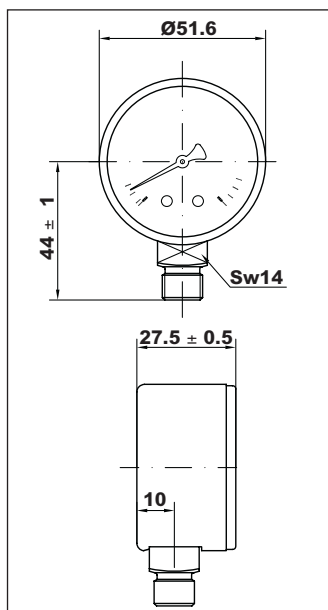
M1-ABS 50/R

EX F+R 201 DN50

Dry Plastic Case DN50 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span cl. 2.5, cl. 1.6 on request
Accuracy class:	IP 31 per EN 60 529 / IEC 529
Degree of protection:	0.073 kg
Individual Weight:	

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 50/R		0-2.5 bar	G1/4B	100/100
M1-ABS 50/R	PA220401	0-4 bar	G1/4B	100/100
M1-ABS 50/R	PA220601	0-6 bar	G1/4B	100/100
M1-ABS 50/R	PA221001	0-10 bar	G1/4B	100/100
M1-ABS 50/R	PA221601	0-16 bar	G1/4B	100/100
M1-ABS 50/R	PA222501	0-25 bar	G1/4B	100/100
M1-ABS 50/R	PA2240BB00	0-40 bar	G1/4B	100/100

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



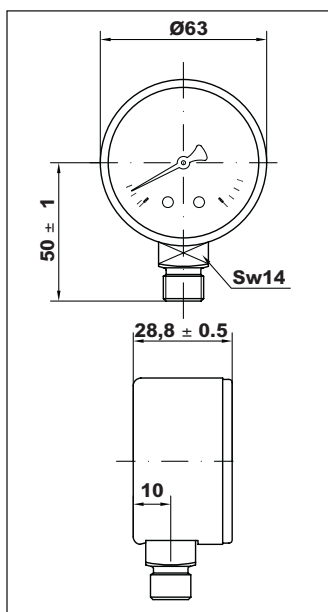
M1-ABS 63/R

EX F+R 201 DN63

Dry Plastic Case DN63 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.089 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 63/R		0-2.5 bar	G1/4B	100/100
M1-ABS 63/R		0-4 bar	G1/4B	100/100
M1-ABS 63/R		0-6 bar	G1/4B	100/100
M1-ABS 63/R		0-10 bar	G1/4B	100/100
M1-ABS 63/R		0-16 bar	G1/4B	100/100
M1-ABS 63/R	PA322501	0-25 bar	G1/4B	100/100
M1-ABS 63/R	PA324001	0-40 bar	G1/4B	100/100

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



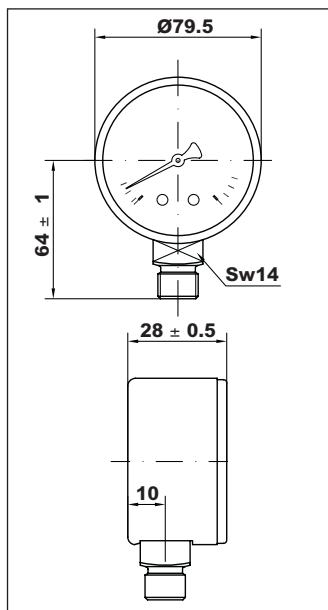
M1-ABS 80/R

EX F+R 201 DN80

Dry Plastic Case DN80 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span cl. 2.5, cl. 1.6 on request
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.128 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 80/R		0-2.5 bar	G3/8B	1/50
M1-ABS 80/R		0-4 bar	G3/8B	1/50
M1-ABS 80/R		0-6 bar	G3/8B	1/50
M1-ABS 80/R		0-10 bar	G3/8B	1/50
M1-ABS 80/R		0-16 bar	G3/8B	1/50
M1-ABS 80/R	PA4225BC00	0-25 bar	G3/8B	1/50
M1-ABS 80/R	PA4240BC00	0-40 bar	G3/8B	1/50

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



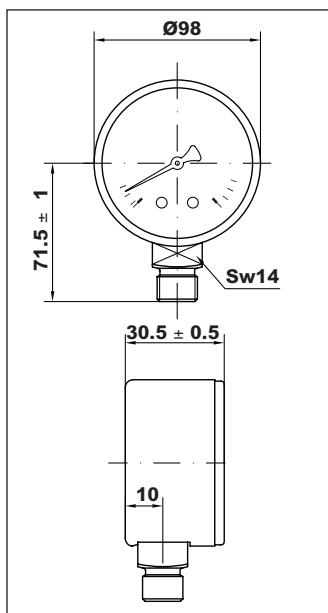
M1-ABS 100/R

EX F+R 201 DN100

Dry Plastic Case DN100 Bottom Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.175 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 100/R	PA5203BD00	0-2.5 bar	G1/2B	1/50
M1-ABS 100/R	PA5204BD00	0-4 bar	G1/2B	1/50
M1-ABS 100/R	PA5206BD00	0-6 bar	G1/2B	1/50
M1-ABS 100/R	PA5210BD00	0-10 bar	G1/2B	1/50
M1-ABS 100/R	PA5216BD00	0-16 bar	G1/2B	1/50
M1-ABS 100/R	PA5225BD00	0-25 bar	G1/2B	1/50
M1-ABS 100/R	PA5240BD00	0-40 bar	G1/2B	1/50

M1-ABS 50/63/80/100/R



Options subject to minimum quantity

V - adjustable red mark pointer with green sector

M1-ABS 40/50/63/80/100/R



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M1-ABS 40/50/63/80/100/R

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer, (QA+I)

M1-ABS 40/50/63/80/100/R

Options subject to minimum quantity

Z - Restrictor 0.5mm

M1-ABS 50/63/80/100/R

Options subject to minimum quantity

MS - silicone movement for dampened pointer travel

M1-ABS 40/50/63/80/100/R

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR EXPANSION VESSEL TESTING IN HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

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PRESSURE GAUGES



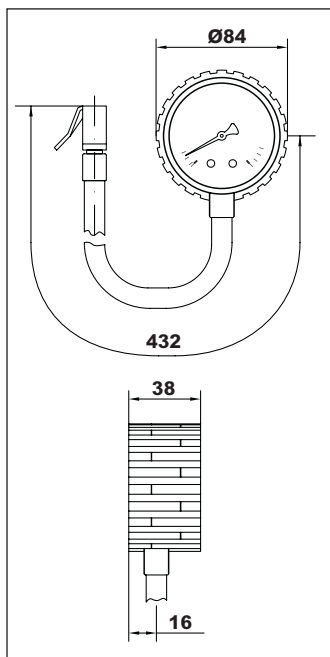
PV M1-ABS 63/QG

EX F+R 280 DN63

Dry Plastic Case DN63 Bottom Entry

Materials

Case:	Black plastic with black rubber cap
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Valve with rubber hose
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.200 kg

Type	Part No.	Pressure Range	Connection	Packaging
PV M1-ABS 63/QG	PV3112DC00	0-12 bar/psi	V40	50/50

Options : see below

OPTIONAL EXTRAS

280 PV M1-ABS 63/QG

Options subject to minimum order
Customized dials on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 40/FR

EX F+R 100 DN40

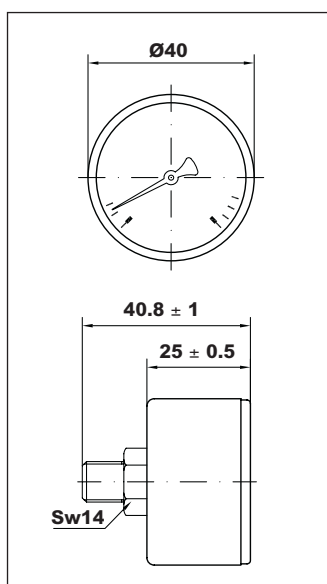
Dry Plastic Case DN40 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.039 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 40/FR	190401001694	-1/0 bar	G1/8B	100/100
M3A-ABS 40/FR	001401001051	0-1 bar	G1/8B	100/100
M3A-ABS 40/FR	106401000190	0-1.6 bar	G1/8B	100/100
M3A-ABS 40/FR	205401000234	0-2.5 bar	G1/8B	100/100
M3A-ABS 40/FR	004401000274	0-4 bar	G1/8B	100/100
M3A-ABS 40/FR	006401000318	0-6 bar	G1/8B	100/100
M3A-ABS 40/FR	010401000386	0-10 bar	G1/8B	100/100
M3A-ABS 40/FR	016401000046	0-16 bar	G1/8B	100/100
M3A-ABS 40/FR	025401000428	0-25 bar	G1/8B	100/100

Higher pressure ranges : see M3A-ABS 40 on page 20

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

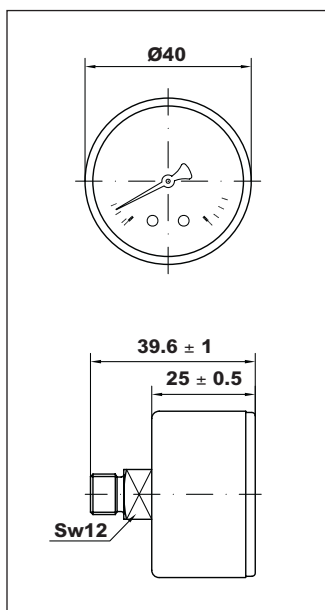


M3A-ABS 40

Dry Plastic Case DN40 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.048 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 40		0-40 bar/psi	G1/8B	240/240
M3A-ABS 40		0-60 bar/psi	G1/8B	240/240
M3A-ABS 40		0-100 bar/psi	G1/8B	240/240
M3A-ABS 40		0-160 bar/psi	G1/8B	240/240
M3A-ABS 40		0-250 bar/psi	G1/8B	240/240
M3A-ABS 40		0-315 bar/psi	G1/8B	240/240
M3A-ABS 40		0-400 bar/psi	G1/8B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 50/FR

EX F+R 100 DN50

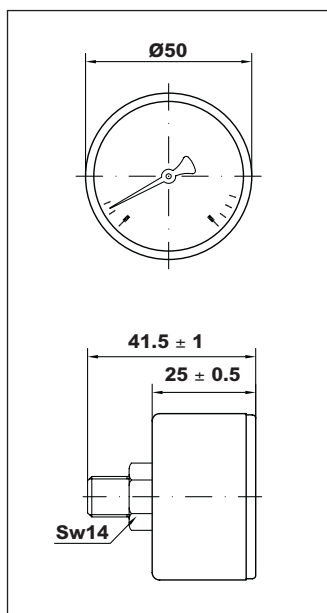
Dry Plastic Case DN50 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.052 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50/FR	190501001599	-1/0 bar	G 1/4 B	100/100
M3A-ABS 50/FR	001501001541	0-1 bar	G 1/4 B	100/100
M3A-ABS 50/FR	106501000218	0-1.6 bar	G 1/4 B	100/100
M3A-ABS 50/FR	205501000062	0-2.5 bar	G 1/4 B	100/100
M3A-ABS 50/FR	004501000296	0-4 bar	G 1/4 B	100/100
M3A-ABS 50/FR	006501000152	0-6 bar	G 1/4 B	100/100
M3A-ABS 50/FR	010501000103	0-10 bar	G 1/4 B	100/100
M3A-ABS 50/FR	016501000068	0-16 bar	G 1/4 B	100/100
M3A-ABS 50/FR	025501000453	0-25 bar	G 1/4 B	100/100

Higher pressure ranges : see M3A-ABS 50 on page 22

Options : see page 26

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

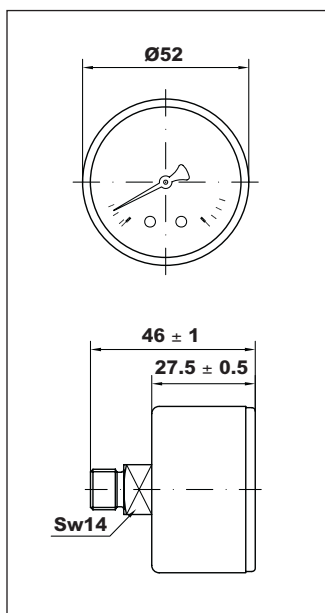


M3A-ABS 50

Dry Plastic Case DN50 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.086 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50	PB224014	0-40 bar/psi	G1/4B	100/100
M3A-ABS 50		0-60 bar/psi	G1/4B	100/100
M3A-ABS 50		0-100 bar/psi	G1/4B	100/100
M3A-ABS 50		0-160 bar/psi	G1/4B	100/100
M3A-ABS 50		0-250 bar/psi	G1/4B	100/100
M3A-ABS 50		0-315 bar/psi	G1/4B	100/100
M3A-ABS 50		0-400 bar/psi	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 63/FR

EX F+R 100 DN63

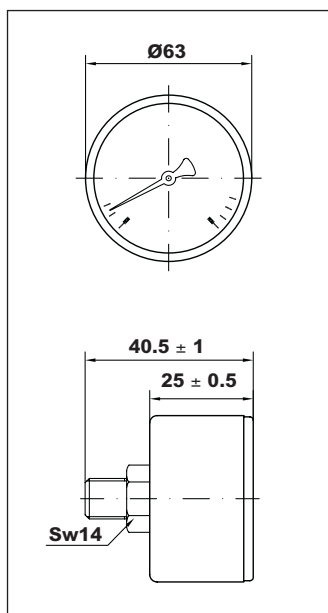
Dry Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.060 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63/FR		-1/0 bar	G 1/4 B	100/100
M3A-ABS 63/FR	001631001587	0-1 bar	G 1/4 B	100/100
M3A-ABS 63/FR	106631000219	0-1.6 bar	G 1/4 B	100/100
M3A-ABS 63/FR	205631000258	0-2.5 bar	G 1/4 B	100/100
M3A-ABS 63/FR	004631000109	0-4 bar	G 1/4 B	100/100
M3A-ABS 63/FR	006631000096	0-6 bar	G 1/4 B	100/100
M3A-ABS 63/FR	010631000002	0-10 bar	G 1/4 B	100/100
M3A-ABS 63/FR	016631000071	0-16 bar	G 1/4 B	100/100
M3A-ABS 63/FR	025631000104	0-25 bar	G 1/4 B	100/100

Higher pressure ranges : see M3A-ABS 63 on page 24

Options : see page 26

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

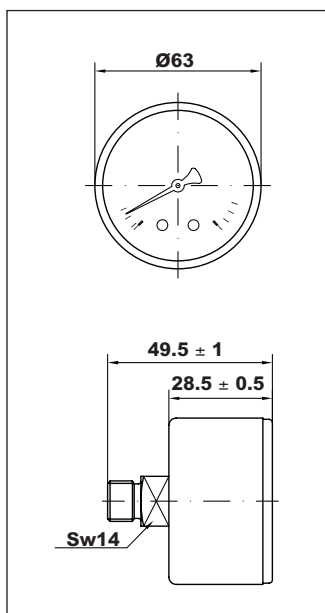


M3A-ABS 63

Dry Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.094 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63	PB324014	0-40 bar/psi	G1/4B	100/100
M3A-ABS 63		0-60 bar/psi	G1/4B	100/100
M3A-ABS 63		0-100 bar/psi	G1/4B	100/100
M3A-ABS 63	PB335414	0-160 bar/psi	G1/4B	100/100
M3A-ABS 63	PB336014	0-250 bar/psi	G1/4B	100/100
M3A-ABS 63		0-315 bar/psi	G1/4B	100/100
M3A-ABS 63		0-400 bar/psi	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

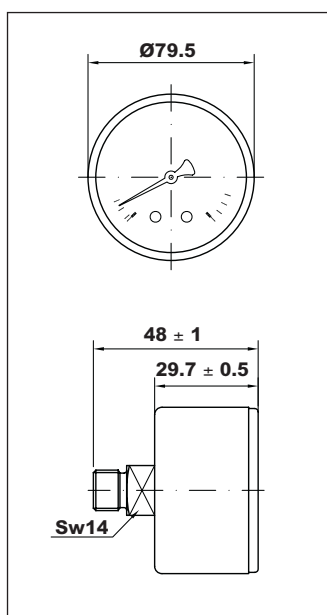


M3A-ABS 80

Dry Plastic Case DN80 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.109 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 80		-1/0 bar	G3/8B	50/50
M3A-ABS 80		0-1 bar	G3/8B	50/50
M3A-ABS 80		0-1.6 bar	G3/8B	50/50
M3A-ABS 80		0-2.5 bar	G3/8B	50/50
M3A-ABS 80		0-4 bar	G3/8B	50/50
M3A-ABS 80		0-6 bar	G3/8B	50/50
M3A-ABS 80		0-10 bar	G3/8B	50/50
M3A-ABS 80		0-16 bar	G3/8B	50/50
M3A-ABS 80		0-25 bar	G3/8B	50/50
M3A-ABS 80		0-40 bar	G3/8B	50/50
M3A-ABS 80		0- 60 bar	G3/8B	50/50
M3A-ABS 80		0-100 bar	G3/8B	50/50
M3A-ABS 80		0-160 bar	G3/8B	50/50
M3A-ABS 80		0-250 bar	G3/8B	50/50
M3A-ABS 80		0-315 bar	G3/8B	50/50
M3A-ABS 80		0-400 bar	G3/8B	50/50

OPTIONAL EXTRAS

M3A-ABS 40/50/63/FR M3A-ABS 40/50/63/80



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3A-ABS 40/50/63/80

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer, (QA+I)

M3A-ABS 40/50/63/FR

Options subject to minimum quantity

Z3 - Restrictor 0.35 mm

M3A-ABS 40/50/63/80

Options subject to minimum quantity

Z - Restrictor 0.5 mm

M3A-ABS 40/50/63/FR M3A-ABS 50/63/80

Options subject to minimum quantity

MS - silicone movement for dampened pointer travel

M3A-ABS 40/50/63/FR M3A-ABS 40/50/63/80

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 40/FR/R

EX F+R 101 DN40

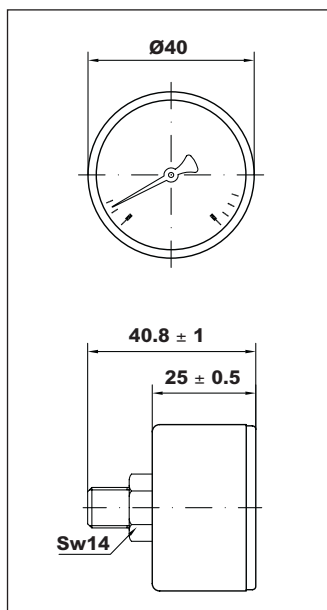
Dry Plastic Case DN40 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with printed red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.039 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 40/FR/R		0-2.5 bar	G1/8B	100/100
M3A-ABS 40/FR/R	004401013720	0-4 bar	G1/8B	100/100
M3A-ABS 40/FR/R	006401013180	0-6 bar	G1/8B	100/100
M3A-ABS 40/FR/R		0-10 bar	G1/8B	100/100
M3A-ABS 40/FR/R	016401013353	0-16 bar	G1/8B	100/100
M3A-ABS 40/FR/R		0-25 bar	G1/8B	100/100

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



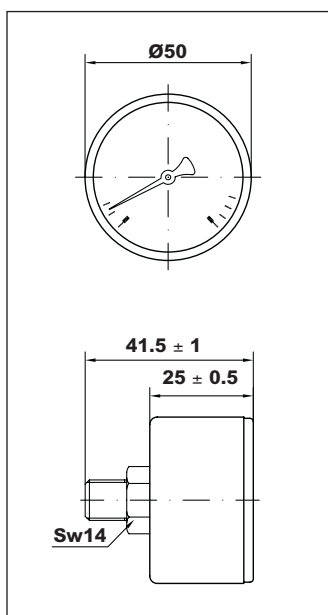
M3A-ABS 50/FR/R

EX F+R 101 DN50

Dry Plastic Case DN50 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.052 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50/FR/R		0-2.5 bar	G1/4B	100/100
M3A-ABS 50/FR/R		0-4 bar	G1/4B	100/100
M3A-ABS 50/FR/R	006501013187	0-6 bar	G1/4B	100/100
M3A-ABS 50/FR/R	010501013188	0-10 bar	G1/4B	100/100
M3A-ABS 50/FR/R	016501013171	0-16 bar	G1/4B	100/100
M3A-ABS 50/FR/R		0-25 bar	G1/4B	100/100

Higher pressure ranges : see M3A-ABS 50/R on page 29

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

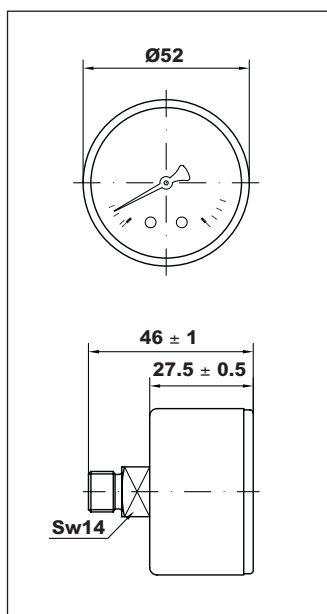


M3A-ABS 50/R

Dry Plastic Case DN50 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.086 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50/R		0-40 bar	G1/4B	100/100
M3A-ABS 50/R		0-60 bar	G1/4B	100/100
M3A-ABS 50/R		0-100 bar	G1/4B	100/100
M3A-ABS 50/R		0-160 bar	G1/4B	100/100
M3A-ABS 50/R		0-250 bar	G1/4B	100/100
M3A-ABS 50/R		0-315 bar	G1/4B	100/100
M3A-ABS 50/R		0-400 bar	G1/4B	100/100

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



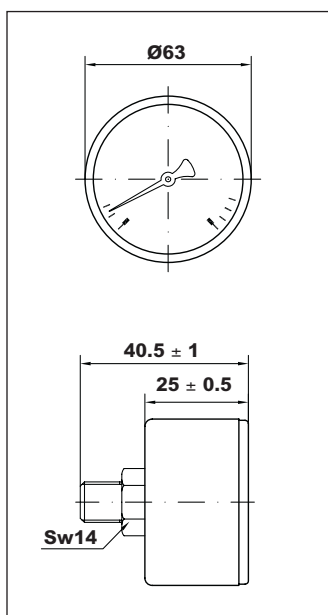
M3A-ABS 63/FR/R

EX F+R 101 DN63

Dry Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.060 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63/FR/R	205631013168	0-2.5 bar	G1/4B	100/100
M3A-ABS 63/FR/R	004631013273	0-4 bar	G1/4B	100/100
M3A-ABS 63/FR/R	006631016337	0-6 bar	G1/4B	100/100
M3A-ABS 63/FR/R	010631016336	0-10 bar	G1/4B	100/100
M3A-ABS 63/FR/R		0-16 bar	G1/4B	100/100
M3A-ABS 63/FR/R	025631013166	0-25 bar	G1/4B	100/100

Higher pressure ranges : see M3A-ABS 63/R on page 31

FOR HEATING AND SANITARY SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

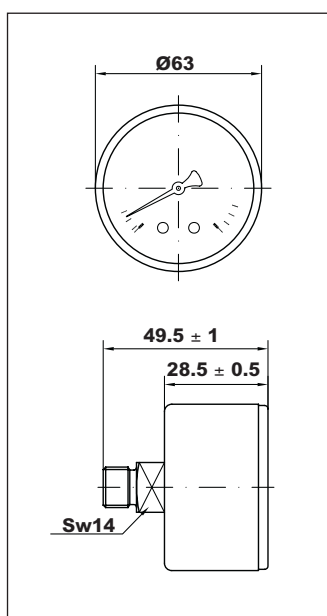


M3A-ABS 63/R

Dry Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.094 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63/R		0-40 bar	G1/4B	100/100
M3A-ABS 63/R		0-60 bar	G1/4B	100/100
M3A-ABS 63/R		0-100 bar	G1/4B	100/100
M3A-ABS 63/R		0-160 bar	G1/4B	100/100
M3A-ABS 63/R		0-250 bar	G1/4B	100/100
M3A-ABS 63/R		0-315 bar	G1/4B	100/100
M3A-ABS 63/R		0-400 bar	G1/4B	100/100

OPTIONAL EXTRAS

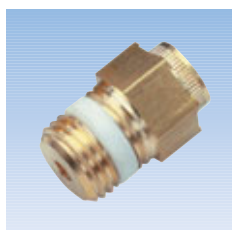
M3A-ABS 50/63/FR/R M3A-ABS 50/63/R



Options subject to minimum quantity

V - adjustable red mark pointer with green sector

M3A-ABS 40/50/63/FR/R M3A-ABS 40/R



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3A-ABS 40/50/63/R

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer, (QA+I)

M3A-ABS 40/50/63/FR/R

Options subject to minimum quantity

Z3 - Restrictor 0.35 mm

M3A-ABS 50/63/R

Options subject to minimum quantity

Z - Restrictor 0.5 mm

M3A-ABS 40/50/63/FR/R M3A-ABS 50/63/80/R

Options subject to minimum quantity

MS - silicone movement for dampened pointer travel

M3A-ABS 40/50/63/FR/R M3A-ABS 40/50/63/R

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 40/TP

EX F+R 400 DN40

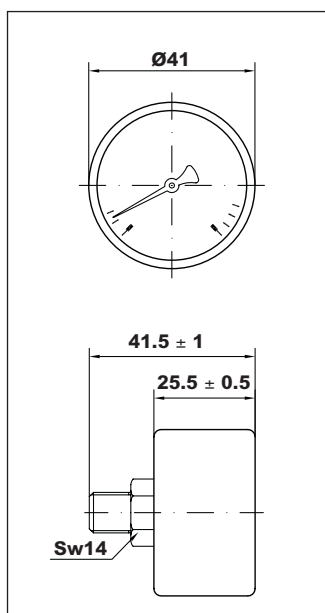
Dry Plastic Case DN40 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Black plastic
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.032 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 40/TP		-1/0 bar	G1/8B	100/100
M3A-ABS 40/TP		0-1 bar	G1/8B	100/100
M3A-ABS 40/TP		0-1.6 bar	G1/8B	100/100
M3A-ABS 40/TP		0-2.5 bar	G1/8B	100/100
M3A-ABS 40/TP		0-4 bar	G1/8B	100/100
M3A-ABS 40/TP		0-6 bar	G1/8B	100/100
M3A-ABS 40/TP	010404005561	0-10 bar	G1/8B	100/100
M3A-ABS 40/TP	016404004490	0-16 bar	G1/8B	100/100
M3A-ABS 40/TP		0-25 bar	G1/8B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



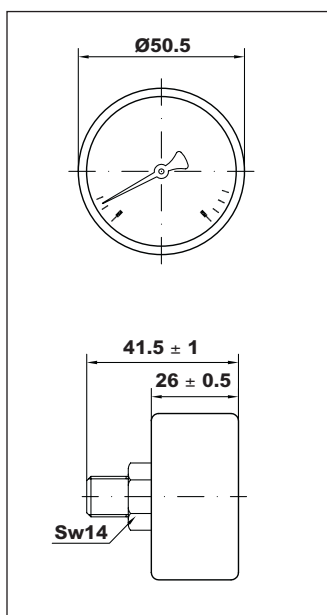
M3A-ABS 50/TP

EX F+R 400 DN50

Dry Plastic Case DN50 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Black plastic
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.046 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50/TP		-1/0 bar	G1/4B	100/100
M3A-ABS 50/TP		0-1 bar	G1/4B	100/100
M3A-ABS 50/TP		0-1.6 bar	G1/4B	100/100
M3A-ABS 50/TP		0-2.5 bar	G1/4B	100/100
M3A-ABS 50/TP		0-4 bar	G1/4B	100/100
M3A-ABS 50/TP		0-6 bar	G1/4B	100/100
M3A-ABS 50/TP		0-10 bar	G1/4B	100/100
M3A-ABS 50/TP		0-16 bar	G1/4B	100/100
M3A-ABS 50/TP		0-25 bar	G1/4B	100/100

M3A-ABS 40/TP



Options subject to minimum quantity

R - printed red mark pointer

M3A-ABS 50/TP



Options subject to minimum quantity

R - adjustable red mark pointer

M3A-ABS 50/TP



Options subject to minimum quantity

V - adjustable red mark pointer with green sector

M3A-ABS 40/50/TP

Options subject to minimum quantity

Z3 - Restrictor 0.35 mm

M3A-ABS 40/50/TP

Options subject to minimum quantity

Customized dials, other scale ranges on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



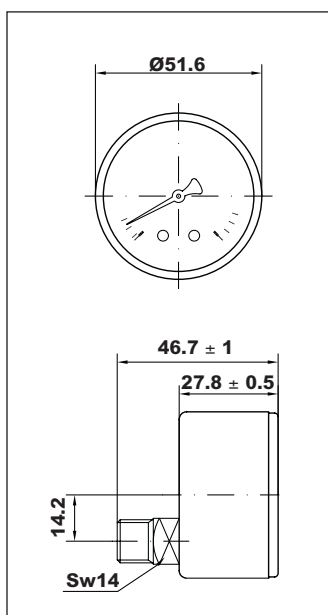
M3A-ABS 50/ECC

EX F+R 300 DN50

Dry Plastic Case DN50 Lower Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.086 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 50/ECC		0-4 bar	G1/4B	100/100
M3A-ABS 50/ECC		0-6 bar	G1/4B	100/100
M3A-ABS 50/ECC	PB2E10BB03	0-10 bar	G1/4B	100/100
M3A-ABS 50/ECC		0-16 bar	G1/4B	100/100

M3A-ABS 50/ECC



Options subject to minimum quantity

R - adjustable red mark pointer

M3A-ABS 50/ECC



Options subject to minimum quantity

V - adjustable red mark pointer with green sector

M3A-ABS 50/ECC

Options subject to minimum quantity

PTFE - Sealing ring on G1/4B only

M3A-ABS 50/ECC

Options subject to minimum quantity

Z3 - Restrictor 0.5mm

M3A-ABS 50/ECC

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



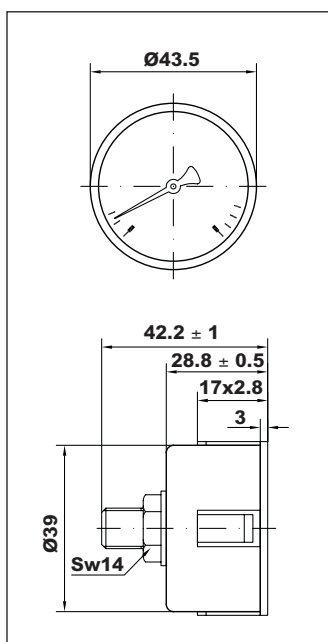
M3A-ABS CLIPS 40

EX F+R 109 DN40

**Dry Plastic Case with Clips
DN40 Centre Back Entry**

Materials

Case with clips:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 30 per EN 60 529 / IEC 529
Individual Weight:	0.042 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS CLIPS 40	190401094236	-1/0 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-1 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-1.6 bar	G1/8B	50/50
M3A-ABS CLIPS 40	205401094228	0-2.5 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-4 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-6 bar	G1/8B	50/50
M3A-ABS CLIPS 40	010401094242	0-10 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-16 bar	G1/8B	50/50
M3A-ABS CLIPS 40		0-25 bar	G1/8B	50/50

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS CLIPS 40/M5

EX F+R 409 DN40

Dry Plastic Case with Clips DN40

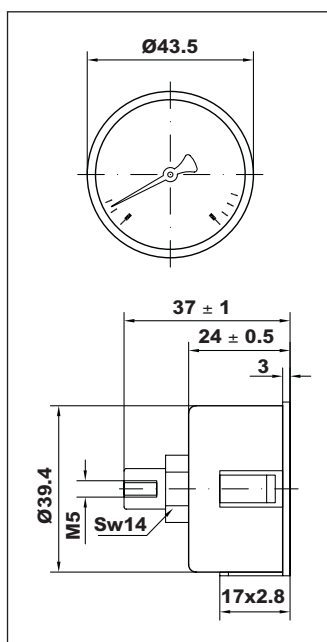
Plastic Centre Back Entry for Capillary

Materials

Case with clips:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, M5 female for fixing capillary only
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 30 per EN 60 529 / IEC 529
Individual Weight:	0.030 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS CLIPS 40/M5		-1/0 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-1 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-1.6 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-2.5 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-4 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-6 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-10 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-16 bar	M5 female	50/50
M3A-ABS CLIPS 40/M5		0-25 bar	M5 female	50/50

Capillary : see page 40

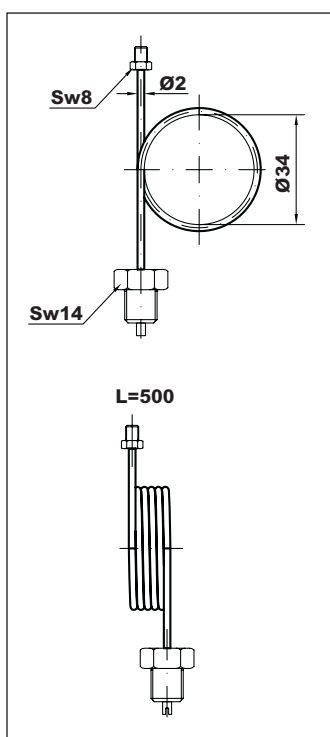
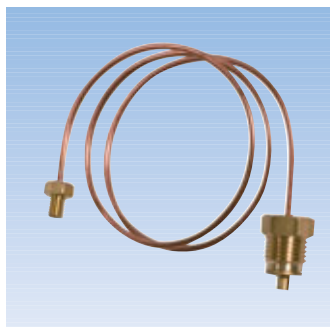
Options : see page 41

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

EX F+R 999

COPPER CAPILLARY

for M3A-ABS CLIPS 40/M5



Type	Part No.	Length	Connection	Packaging
COPPER CAPILLARY	999999994115	500mm	G1/4B rotary	50/50

M3A-ABS CLIPS 40

Options subject to minimum quantity

Z3 - Restrictor 0.35mm

M3A-ABS CLIPS 40
M3A-ABS CLIPS 40/M5

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

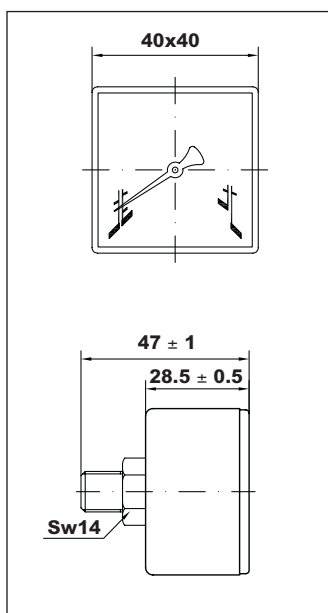


M3A-ABS QUA 40

EX F+R 107 DN40x40
Dry Plastic Square Case DN40x40 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.054 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS QUA 40	190401072187	-1/0 bar	G1/8B	100/100
M3A-ABS QUA 40	001401072189	0-1 bar	G1/8B	100/100
M3A-ABS QUA 40	106401072250	0-1.6 bar	G1/8B	100/100
M3A-ABS QUA 40		0-2.5 bar	G1/8B	100/100
M3A-ABS QUA 40		0-4 bar	G1/8B	100/100
M3A-ABS QUA 40	006401072180	0-6 bar	G1/8B	100/100
M3A-ABS QUA 40	010401072181	0-10 bar	G1/8B	100/100
M3A-ABS QUA 40	016401073752	0-16 bar	G1/8B	100/100
M3A-ABS QUA 40	025401072188	0-25 bar	G1/8B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS QUA 48/CLIPS

EX F+R 107 DN48x48

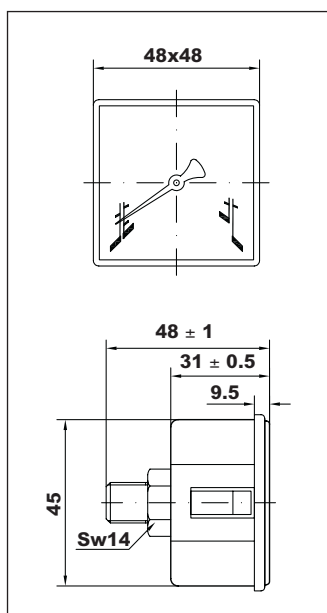
Dry Plastic Square Case with Clips DN48x48 Centre Back Entry

Materials

Case with clips:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 30 per EN 60 529 / IEC 529
Individual Weight:	0.060 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS QUA 48/CLIPS	190481071545	-1/0 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-1 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-1.6 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-2.5 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-4 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS	006481074756	0-6 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS	010481071600	0-10 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-16 bar	G1/4B	100/100
M3A-ABS QUA 48/CLIPS		0-25 bar	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS QUA 48/M5 CLIPS

EX F+R 407 DN48x48

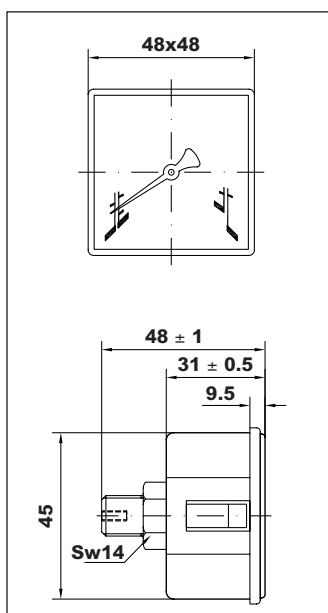
Dry Plastic Square Case with Clips DN48x48 M5 Centre Back Entry for Capillary

Materials

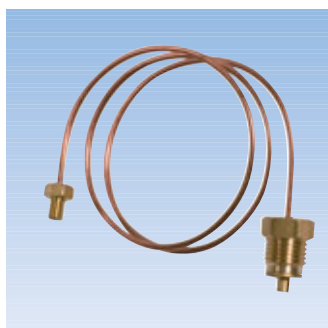
Case with clips:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Copper alloy, M 5 female for fixing capillary only
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 30 per EN 60 529 / IEC 529
Individual Weight:	0.052 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS QUA 48/M5 CLIPS		-1/0 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-1 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-1.6 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-2.5 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-4 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-6 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-10 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-16 bar	M5 female	100/100
M3A-ABS QUA 48/M5 CLIPS		0-25 bar	M5 female	100/100



COPPER CAPILLARY

EX F+R 999

for M3A-ABS QUA 48/M5 CLIPS

For Nominal dimensions see page 40

Type	Part No.	Length	Connection	Packaging
COPPER CAPILLARY	999999994115	500mm	G1/4B rotary	50/50

Options : see page 46

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



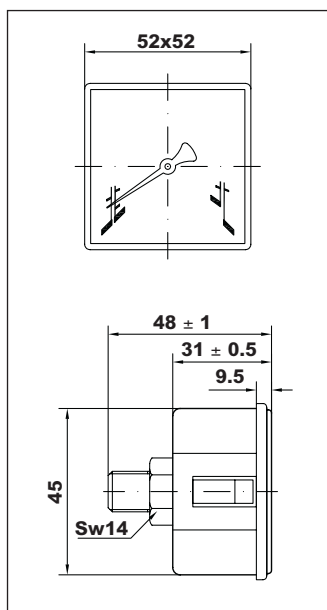
M3A-ABS QUA 52/CLIPS

EX F+R 107 DN52x52

Dry Plastic Square Case with Clips DN52x52 Centre Back Entry

Materials

Case with clips:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 30 per EN 60 529 / IEC 529
Individual Weight:	0.070 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS QUA 52/CLIPS		-1/0 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-1 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-1.6 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-2.5 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-4 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-6 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-10 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS	016521071529	0-16 bar	G1/4B	100/100
M3A-ABS QUA 52/CLIPS		0-25 bar	G1/4B	100/100

OPTIONAL EXTRAS

M3A-ABS QUA 40
M3A-ABS QUA CLIPS 48/52

Options subject to minimum quantity

Z3 - Restrictor 0.35mm**M3A-ABS QUA CLIPS 48/M5**

Options subject to minimum quantity

R - adjustable red mark pointer**M3A-ABS QUA 40**
M3A-ABS QUA CLIPS 48/52

Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only**M3A-ABS QUA 40**
M3A-ABS QUA CLIPS 48/52
M3A-ABS QUA CLIPS 48/M5

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3B-ABS 40/C

EX F+R 106 DN40

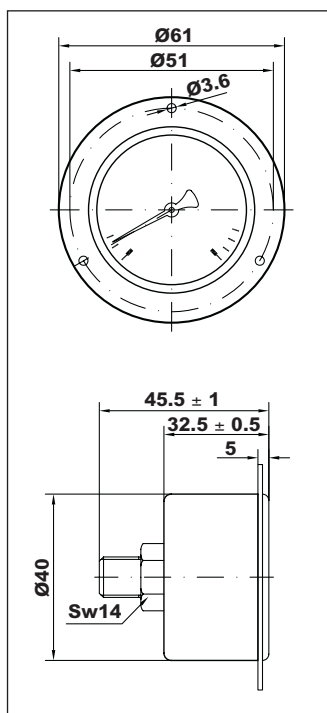
Dry Plastic Case DN40 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black plastic
3-hole flange:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.060 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3B-ABS 40/C	190401062247	-1/0 bar	G1/8B	1/125
M3B-ABS 40/C	001401062215	0-1 bar	G1/8B	1/125
M3B-ABS 40/C	106401062273	0-1.6 bar	G1/8B	1/125
M3B-ABS 40/C	205401062217	0-2.5 bar	G1/8B	1/125
M3B-ABS 40/C	004401062107	0-4 bar	G1/8B	1/125
M3B-ABS 40/C	006401062628	0-6 bar	G1/8B	1/125
M3B-ABS 40/C	010401061707	0-10 bar	G1/8B	1/125
M3B-ABS 40/C	016401062390	0-16 bar	G1/8B	1/125
M3B-ABS 40/C	025401062216	0-25 bar	G1/8B	1/125

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



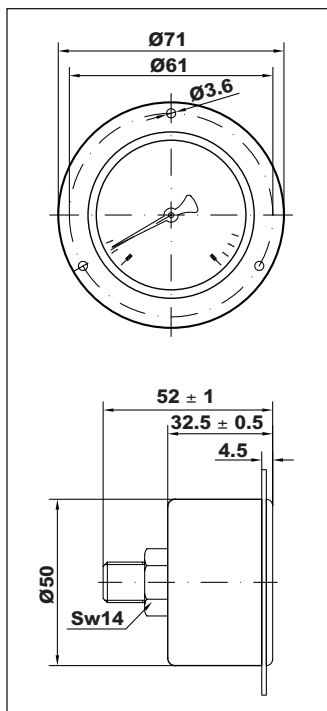
M3B-ABS 50/C

EX F+R 106 DN50

Dry Plastic Case DN50 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black plastic
3-hole flange:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.070 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3B-ABS 50/C		-1/0 bar	G1/4B	1/125
M3B-ABS 50/C		0-1 bar	G1/4B	1/125
M3B-ABS 50/C		0-1.6 bar	G1/4B	1/125
M3B-ABS 50/C		0-2.5 bar	G1/4B	1/125
M3B-ABS 50/C	004501061741	0-4 bar	G1/4B	1/125
M3B-ABS 50/C		0-6 bar	G1/4B	1/125
M3B-ABS 50/C	010501060539	0-10 bar	G1/4B	1/125
M3B-ABS 50/C		0-16 bar	G1/4B	1/125
M3B-ABS 50/C	025501060728	0-25 bar	G1/4B	1/125

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3B-ABS 63/C

EX F+R 106 DN63

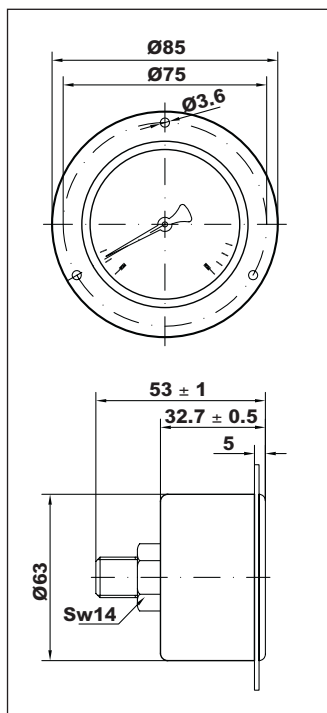
Dry Plastic Case DN63 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black plastic
3-hole flange:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.080 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3B-ABS 63/C	190631062221	-1/0 bar	G1/4B	1/72
M3B-ABS 63/C		0-1 bar	G1/4B	1/72
M3B-ABS 63/C	106631062223	0-1.6 bar	G1/4B	1/72
M3B-ABS 63/C	205631062276	0-2.5 bar	G1/4B	1/72
M3B-ABS 63/C	004631060673	0-4 bar	G1/4B	1/72
M3B-ABS 63/C	006631060690	0-6 bar	G1/4B	1/72
M3B-ABS 63/C	010631060691	0-10 bar	G1/4B	1/72
M3B-ABS 63/C	016631060692	0-16 bar	G1/4B	1/72
M3B-ABS 63/C	025631062222	0-25 bar	G1/4B	1/72

OPTIONAL EXTRAS

M3B-ABS 40/50/63/N



Options subject to minimum quantity

FNA - 3-Hole flange black plastic

M3B-ABS 40/50/63/C

Options subject to minimum quantity

VV - instrument glass

M3B-ABS 50/63/C

Options subject to minimum quantity

R - adjustable red mark pointer for clear plastic window only

M3B-ABS 40/50/63/C



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3B-ABS 40/50/63/C

Options subject to minimum quantity

Z3 - Restrictor 0.35mm

M3B-ABS 40/50/63/C

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3F-ABS 40/C

EX F+R 111 DN40

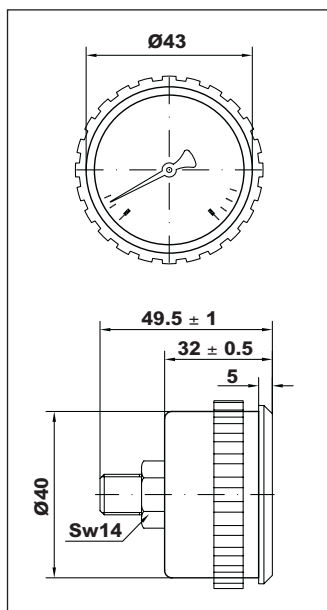
Dry Plastic Case DN40 Centre Back Entry with Panel Mounting Fixing Ring

Materials

Case + Fixing ring:	Black plastic
Triangular ring:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.055 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3F-ABS 40/C	190401113358	-1/0 bar	G1/8B	1/100
M3F-ABS 40/C		0-1 bar	G1/8B	1/100
M3F-ABS 40/C	106401112235	0-1.6 bar	G1/8B	1/100
M3F-ABS 40/C	205401112267	0-2.5 bar	G1/8B	1/100
M3F-ABS 40/C	004401112644	0-4 bar	G1/8B	1/100
M3F-ABS 40/C	006401111711	0-6 bar	G1/8B	1/100
M3F-ABS 40/C	010401112084	0-10 bar	G1/8B	1/100
M3F-ABS 40/C	016401112401	0-16 bar	G1/8B	1/100
M3F-ABS 40/C	025401112338	0-25 bar	G1/8B	1/100

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



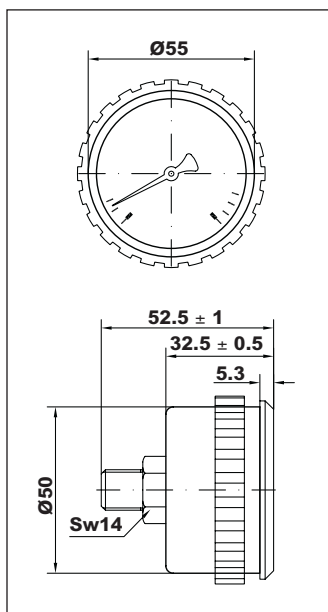
M3F-ABS 50/C

EX F+R 111 DN50

Dry Plastic Case DN50 Centre Back Entry with Panel Mounting Fixing Ring

Materials

Case + Fixing ring:	Black plastic
Triangular ring:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.065 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3F-ABS 50/C	190501111938	-1/0 bar	G1/4B	1/125
M3F-ABS 50/C		0-1 bar	G1/4B	1/125
M3F-ABS 50/C		0-1.6 bar	G1/4B	1/125
M3F-ABS 50/C	205501111175	0-2.5 bar	G1/4B	1/125
M3F-ABS 50/C	004501111172	0-4 bar	G1/4B	1/125
M3F-ABS 50/C	006501111170	0-6 bar	G1/4B	1/125
M3F-ABS 50/C	010501111176	0-10 bar	G1/4B	1/125
M3F-ABS 50/C	016501111171	0-16 bar	G1/4B	1/125
M3F-ABS 50/C		0-25 bar	G1/4B	1/125

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3F-ABS 63/C

EX F+R 111 DN63

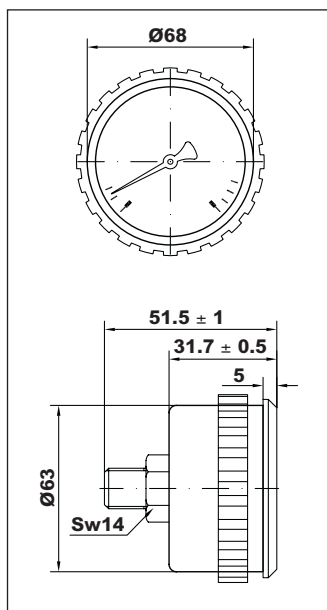
Dry Plastic Case DN63 Centre Back Entry with Panel Mounting Fixing Ring

Materials

Case + Fixing ring:	Black plastic
Triangular ring:	Chrome-plated plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy / Polyester combination

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.075 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3F-ABS 63/C	190631112238	-1/0 bar	G1/4B	1/72
M3F-ABS 63/C		0-1 bar	G1/4B	1/72
M3F-ABS 63/C	106631112271	0-1.6 bar	G1/4B	1/72
M3F-ABS 63/C	205631113512	0-2.5 bar	G1/4B	1/72
M3F-ABS 63/C	004631114791	0-4 bar	G1/4B	1/72
M3F-ABS 63/C	006631111076	0-6 bar	G1/4B	1/72
M3F-ABS 63/C	010631113726	0-10 bar	G1/4B	1/72
M3F-ABS 63/C	016631111169	0-16 bar	G1/4B	1/72
M3F-ABS 63/C	025631112239	0-25 bar	G1/4B	1/72

OPTIONAL EXTRAS

M3F-ABS 40/50/63/N



Options subject to minimum quantity

GAN - triangular ring black plastic

M3F-ABS 40/50/63/C

Options subject to minimum quantity

VV - instrument glass

M3F-ABS 40/50/63/C



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3F-ABS 40/50/63/C

Options subject to minimum quantity

Z3 - Restrictor 0.35mm

M3F-ABS 40/50/63/C

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS, INDOOR SERVICE. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



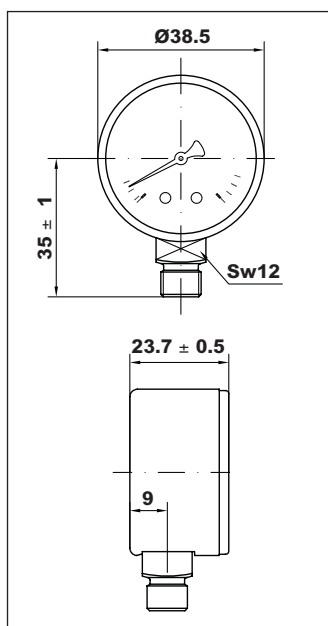
M1-40

EX F+R 250 DN40

Dry Steel Case DN40 Bottom Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.060 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-40		0-1.6 bar	G1/8B	240/240
M1-40		0-2.5 bar	G1/8B	240/240
M1-40	PA150421	0-4 bar	G1/8B	240/240
M1-40	PA1506BI00	0-6 bar	G1/8B	240/240
M1-40	PA151021	0-10 bar	G1/8B	240/240
M1-40		0-16 bar	G1/8B	240/240
M1-40		0-25 bar	G1/8B	240/240
M1-40		0-40 bar	G1/8B	240/240
M1-40		0-60 bar	G1/8B	240/240
M1-40		0-100 bar	G1/8B	240/240
M1-40		0-160 bar	G1/8B	240/240
M1-40		0-250 bar	G1/8B	240/240
M1-40		0-315 bar	G1/8B	240/240
M1-40		0-400 bar	G1/8B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



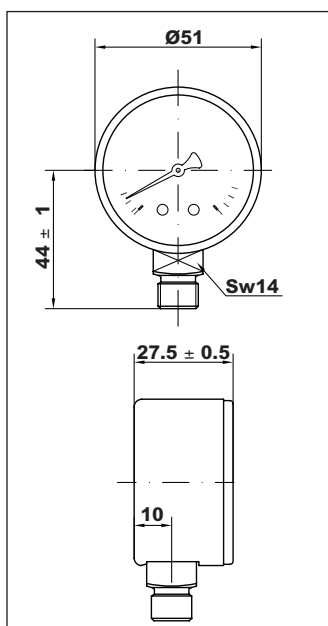
M1-50

EX F+R 250 DN50

Dry Steel Case DN50 Bottom Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.095 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-50	PA2401BJ00	-1/0 bar	G1/4B	100/100
M1-50		0-1 bar	G1/4B	100/100
M1-50		0-1.6 bar	G1/4B	100/100
M1-50		0-2.5 bar	G1/4B	100/100
M1-50		0-4 bar	G1/4B	100/100
M1-50		0-6 bar	G1/4B	100/100
M1-50		0-10 bar	G1/4B	100/100
M1-50		0-16 bar	G1/4B	100/100
M1-50		0-25 bar	G1/4B	100/100
M1-50		0-40 bar	G1/4B	100/100
M1-50		0-60 bar	G1/4B	100/100
M1-50		0-100 bar	G1/4B	100/100
M1-50		0-160 bar	G1/4B	100/100
M1-50		0-250 bar	G1/4B	100/100
M1-50		0-315 bar	G1/4B	100/100
M1-50		0-400 bar	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



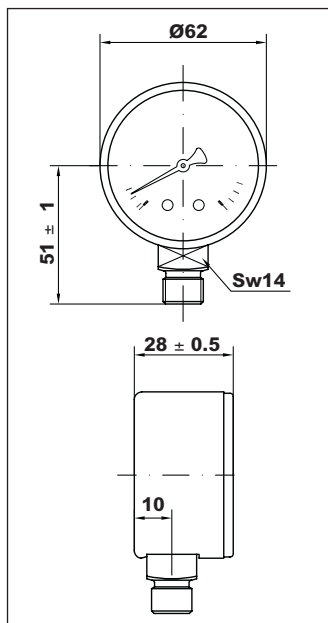
M1-63

EX F+R 250 DN63

Dry Steel Case DN63 Bottom Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.115 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-63		-1/0 bar	G1/4B	100/100
M1-63		0-1 bar	G1/4B	100/100
M1-63		0-1.6 bar	G1/4B	100/100
M1-63		0-2.5 bar	G1/4B	100/100
M1-63		0-4 bar	G1/4B	100/100
M1-63	PA350607	0-6 bar	G1/4B	100/100
M1-63		0-10 bar	G1/4B	100/100
M1-63	PA3516BB00	0-16 bar	G1/4B	100/100
M1-63	PA352507	0-25 bar	G1/4B	100/100
M1-63	PA354007	0-40 bar	G1/4B	100/100
M1-63		0-60 bar	G1/4B	100/100
M1-63		0-100 bar	G1/4B	100/100
M1-63		0-160 bar	G1/4B	100/100
M1-63		0-250 bar	G1/4B	100/100
M1-63		0-315 bar	G1/4B	100/100
M1-63		0-400 bar	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



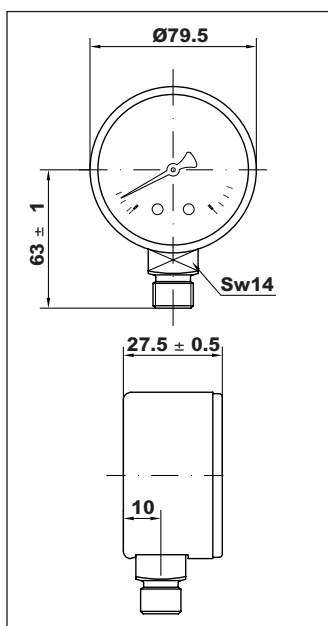
M1-80

EX F+R 250 DN80

Dry Steel Case DN50 Bottom Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.170 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-80		-1/0 bar	G3/8B	1/50
M1-80		0-1 bar	G3/8B	1/50
M1-80		0-1.6 bar	G3/8B	1/50
M1-80	PA4403BC01	0-2.5 bar	G3/8B	1/50
M1-80	PA4504BC03	0-4 bar	G3/8B	1/50
M1-80		0-6 bar	G3/8B	1/50
M1-80		0-10 bar	G3/8B	1/50
M1-80		0-16 bar	G3/8B	1/50
M1-80		0-25 bar	G3/8B	1/50
M1-80		0-40 bar	G3/8B	1/50
M1-80		0-60 bar	G3/8B	1/50
M1-80		0-100 bar	G3/8B	1/50
M1-80		0-160 bar	G3/8B	1/50
M1-80		0-250 bar	G3/8B	1/50
M1-80		0-315 bar	G3/8B	1/50
M1-80		0-400 bar	G3/8B	1/50

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M1-100

EX F+R 250 DN100

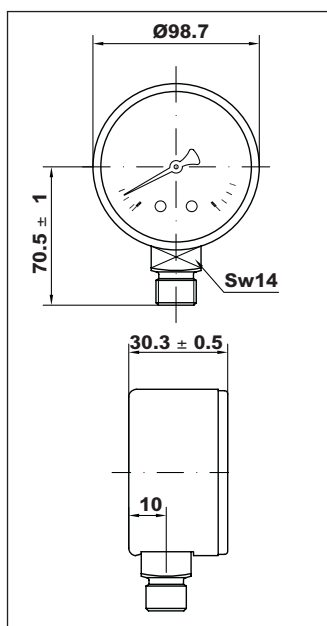
Dry Steel Case DN63 Bottom Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.255 kg



Type	Part No.	Pressure Range	Connection	Packaging
M1-100		-1/0 bar	G1/2B	1/30
M1-100		0-1 bar	G1/2B	1/30
M1-100		0-1.6 bar	G1/2B	1/30
M1-100		0-2.5 bar	G1/2B	1/30
M1-100		0-4 bar	G1/2B	1/30
M1-100		0-6 bar	G1/2B	1/30
M1-100	PA5510BD00	0-10 bar	G1/2B	1/30
M1-100		0-16 bar	G1/2B	1/30
M1-100		0-25 bar	G1/2B	1/30
M1-100		0-40 bar	G1/2B	1/30
M1-100		0-60 bar	G1/2B	1/30
M1-100		0-100 bar	G1/2B	1/30
M1-100		0-160 bar	G1/2B	1/30
M1-100		0-250 bar	G1/2B	1/30
M1-100		0-315 bar	G1/2B	1/30
M1-100		0-400 bar	G1/2B	1/30

OPTIONAL EXTRAS

M1-50/63/80/100



Options subject to minimum quantity

R - adjustable red mark pointer

M1-40/50/63/80/100

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+A+VV)

M1-40/50/63/80/100

Options subject to minimum quantity

Z - Restrictor 0.5mm

M1-40/50/63/80/100



Options subject to minimum quantity

A+VV - Chrome-plated bezel ring + instrument glass window

M1-40/50/63/80/100



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M1-40/50/63/80/100

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-40

EX F+R 150 DN40

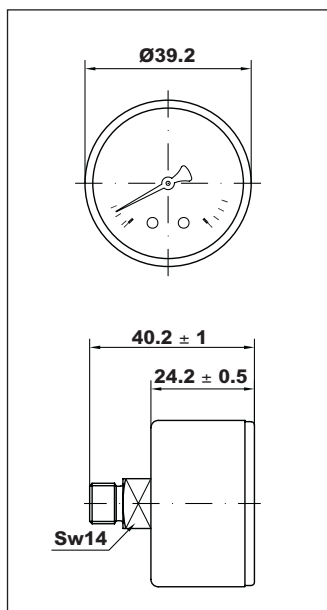
Dry Steel Case DN40 Centre Back Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.069 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-40		-1/0 bar	G1/8B	240/240
M3A-40		0-1 bar	G1/8B	240/240
M3A-40		0-1.6 bar	G1/8B	240/240
M3A-40		0-2.5 bar	G1/8B	240/240
M3A-40	PB150421	0-4 bar	G1/8B	240/240
M3A-40		0-6 bar	G1/8B	240/240
M3A-40		0-10 bar	G1/8B	240/240
M3A-40		0-16 bar	G1/8B	240/240
M3A-40		0-25 bar	G1/8B	240/240
M3A-40		0-40 bar	G1/8B	240/240
M3A-40		0-60 bar	G1/8B	240/240
M3A-40		0-100 bar	G1/8B	240/240
M3A-40		0-160 bar	G1/8B	240/240
M3A-40		0-250 bar	G1/8B	240/240
M3A-40		0-315 bar	G1/8B	240/240
M3A-40		0-400 bar	G1/8B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS, INDOOR SERVICE. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



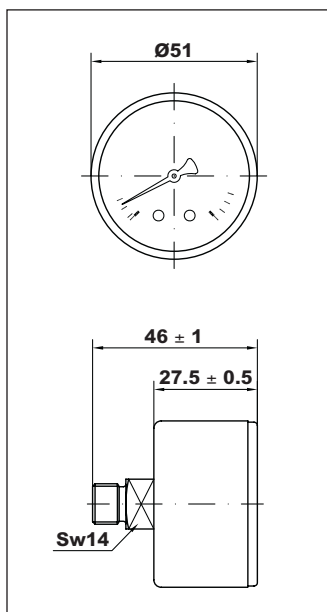
M3A-50

EX F+R 150 DN50

Dry Steel Case DN50 Centre Back Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.116 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-50		-1/0 bar	G1/4B	100/100
M3A-50		0-1 bar	G1/4B	100/100
M3A-50		0-1.6 bar	G1/4B	100/100
M3A-50		0-2.5 bar	G1/4B	100/100
M3A-50	PB2504BB00	0-4 bar	G1/4B	100/100
M3A-50		0-6 bar	G1/4B	100/100
M3A-50		0-10 bar	G1/4B	100/100
M3A-50		0-16 bar	G1/4B	100/100
M3A-50		0-25 bar	G1/4B	100/100
M3A-50		0-40 bar	G1/4B	100/100
M3A-50		0-60 bar	G1/4B	100/100
M3A-50		0-100 bar	G1/4B	100/100
M3A-50		0-160 bar	G1/4B	100/100
M3A-50		0-250 bar	G1/4B	100/100
M3A-50		0-315 bar	G1/4B	100/100
M3A-50		0-400 bar	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS, INDOOR SERVICE. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



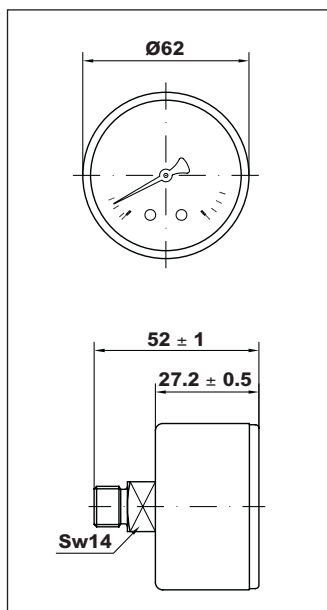
M3A-63

EX F+R 150 DN63

Dry Steel Case DN63 Centre Back Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.126 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-63		-1/0 bar	G1/4B	100/100
M3A-63		0-1 bar	G1/4B	100/100
M3A-63		0-1.6 bar	G1/4B	100/100
M3A-63		0-2.5 bar	G1/4B	100/100
M3A-63		0-4 bar	G1/4B	100/100
M3A-63		0-6 bar	G1/4B	100/100
M3A-63		0-10 bar	G1/4B	100/100
M3A-63	PB351622	0-16 bar	G1/4B	100/100
M3A-63		0-25 bar	G1/4B	100/100
M3A-63		0-40 bar	G1/4B	100/100
M3A-63		0-60 bar	G1/4B	100/100
M3A-63		0-100 bar	G1/4B	100/100
M3A-63		0-160 bar	G1/4B	100/100
M3A-63		0-250 bar	G1/4B	100/100
M3A-63		0-315 bar	G1/4B	100/100
M3A-63		0-400 bar	G1/4B	100/100

FOR GENERAL INDUSTRIAL APPLICATIONS, INDOOR SERVICE. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



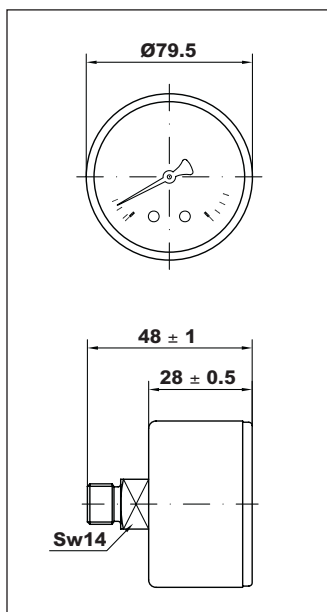
M3A-80

EX F+R 150 DN80

Dry Steel Case DN80 Centre Back Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.156 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-80		-1/0 bar	G3/8B	50/50
M3A-80		0-1 bar	G3/8B	50/50
M3A-80		0-1.6 bar	G3/8B	50/50
M3A-80		0-2.5 bar	G3/8B	50/50
M3A-80		0-4 bar	G3/8B	50/50
M3A-80		0-6 bar	G3/8B	50/50
M3A-80		0-10 bar	G3/8B	50/50
M3A-80		0-16 bar	G3/8B	50/50
M3A-80		0-25 bar	G3/8B	50/50
M3A-80		0-40 bar	G3/8B	50/50
M3A-80		0-60 bar	G3/8B	50/50
M3A-80		0-100 bar	G3/8B	50/50
M3A-80		0-160 bar	G3/8B	50/50
M3A-80		0-250 bar	G3/8B	50/50
M3A-80		0-315 bar	G3/8B	50/50
M3A-80		0-400 bar	G3/8B	50/50

FOR GENERAL INDUSTRIAL APPLICATIONS, INDOOR SERVICE. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-100

EX F+R 150 DN100

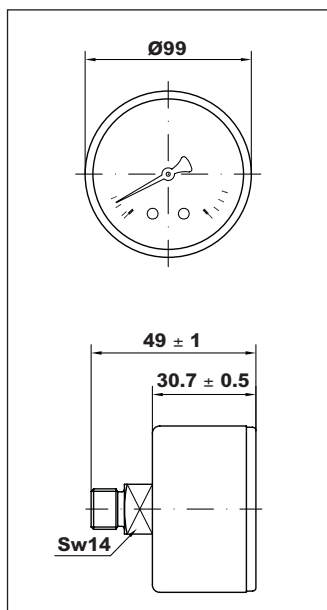
Dry Steel Case DN100 Centre Back Entry

Materials

Case:	Black steel, powder coated
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.176 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-100		-1/0 bar	G1/2B	1/30
M3A-100		0-1 bar	G1/2B	1/30
M3A-100		0-1.6 bar	G1/2B	1/30
M3A-100		0-2.5 bar	G1/2B	1/30
M3A-100		0-4 bar	G1/2B	1/30
M3A-100		0-6 bar	G1/2B	1/30
M3A-100		0-10 bar	G1/2B	1/30
M3A-100		0-16 bar	G1/2B	1/30
M3A-100		0-25 bar	G1/2B	1/30
M3A-100		0-40 bar	G1/2B	1/30
M3A-100		0-60 bar	G1/2B	1/30
M3A-100		0-100 bar	G1/2B	1/30
M3A-100		0-160 bar	G1/2B	1/30
M3A-100		0-250 bar	G1/2B	1/30
M3A-100		0-315 bar	G1/2B	1/30
M3A-100		0-400 bar	G1/2B	1/30

M3A-50/63/80/100



Options subject to minimum quantity

R - adjustable red mark pointer

M3A-40/50/63/80/100

Options subject to minimum quantity

Z - Restrictor 0.5mm

M3A-40/50/63/80/100

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+A+VV)

M3A-40/50/63/80/100



Options subject to minimum quantity

A+VV - Chrome-plated bezel ring + instrument glass window

M3A-40/50/63/80/100



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3A-40/50/63/80/100

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3B-40

EX F+R 152 DN40

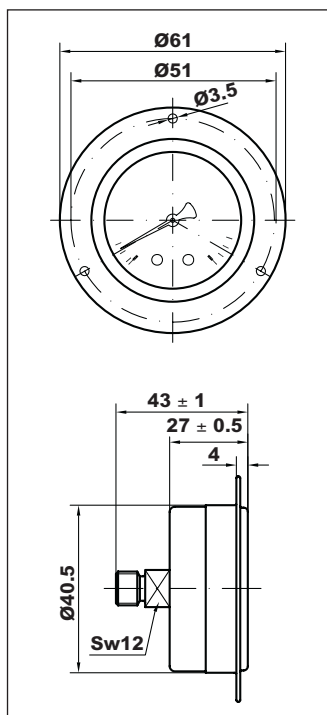
Dry Steel Case DN40 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black steel, powder coated
3-hole flange:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.086 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3B-40	PC1401EI00	-1/0 bar/inHg	G1/8B	100/100
M3B-40		0-1 bar/psi	G1/8B	100/100
M3B-40		0-1.6 bar/psi	G1/8B	100/100
M3B-40	PC1503DI00	0-2.5 bar/psi	G1/8B	100/100
M3B-40	PC1504DI00	0-4 bar/psi	G1/8B	100/100
M3B-40	PC1506DI00	0-6 bar/psi	G1/8B	100/100
M3B-40	PC1510DI00	0-10 bar/psi	G1/8B	100/100
M3B-40	PC1516DI00	0-16 bar/psi	G1/8B	100/100
M3B-40		0-25 bar/psi	G1/8B	100/100
M3B-40		0-40 bar/psi	G1/8B	100/100

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

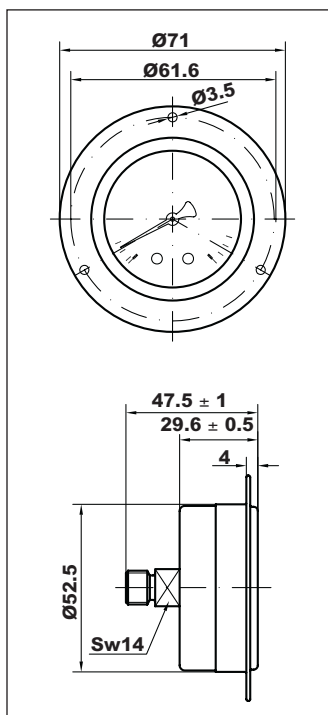


M3B-50

EX F+R 152 DN50
Dry Steel Case DN50 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black steel, powder coated
3-hole flange:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.126 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3B-50		-1/0 bar/inHg	G1/4B	100/100
M3B-50		0-1 bar/psi	G1/4B	100/100
M3B-50		0-1.6 bar/psi	G1/4B	100/100
M3B-50		0-2.5 bar/psi	G1/4B	100/100
M3B-50		0-4 bar/psi	G1/4B	100/100
M3B-50		0-6 bar/psi	G1/4B	100/100
M3B-50		0-10 bar/psi	G1/4B	100/100
M3B-50		0-16 bar/psi	G1/4B	100/100
M3B-50		0-25 bar/psi	G1/4B	100/100
M3B-50		0-40 bar/psi	G1/4B	100/100

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3B-63

EX F+R 152 DN63

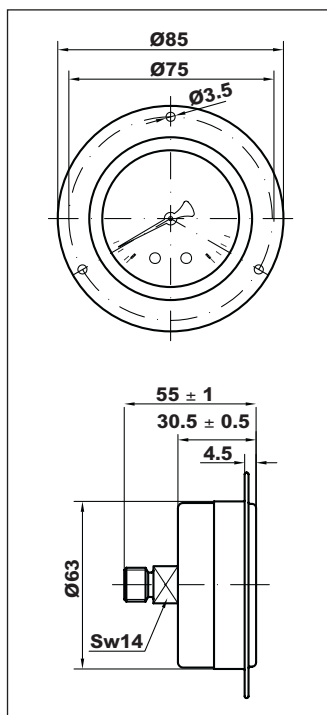
Dry Steel Case DN63 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case:	Black steel, powder coated
3-hole flange:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.126 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3B-63	PC3401EJ00	-1/0 bar/inHg	G1/4B	1/50
M3B-63		0-1 bar/psi	G1/4B	1/50
M3B-63		0-1.6 bar/psi	G1/4B	1/50
M3B-63	PC3503DJ00	0-2.5 bar/psi	G1/4B	1/50
M3B-63	PC3504DJ00	0-4 bar/psi	G1/4B	1/50
M3B-63	PC3506DJ00	0-6 bar/psi	G1/4B	1/50
M3B-63	PC3510DJ00	0-10 bar/psi	G1/4B	1/50
M3B-63	PC3516DJ00	0-16 bar/psi	G1/4B	1/50
M3B-63	PC3525DB00	0-25 bar/psi	G1/4B	1/50
M3B-63		0-40 bar/psi	G1/4B	1/50

OPTIONAL EXTRAS

M3B-50/63



Options subject to minimum quantity

R - adjustable red mark pointer

M3B-40/50/63

Options subject to minimum quantity

Z - Restrictor 0.5mm

M3B-40/50/63

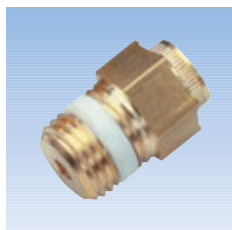
High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+VV)

M3B-40/50/63



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3B-40/50/63

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3F-40

EX F+R 152 DN40

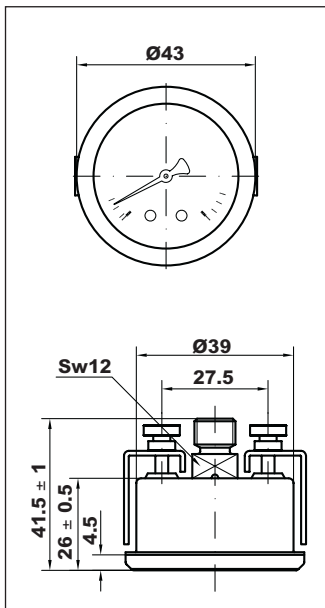
Dry Steel Case DN40 Centre Back Entry with Panel Mounting Brackets

Materials

Case and brackets:	Zinc-plated steel
Triangular ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.094 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3F-40	PD1401EI00	-1/0 bar/inHg	G1/8B	1/50
M3F-40	PD1401DI01	0-1 bar/psi	G1/8B	1/50
M3F-40	PD1402DI00	0-1.6 bar/psi	G1/8B	1/50
M3F-40	PD1503DI00	0-2.5 bar/psi	G1/8B	1/50
M3F-40	PD1504DI00	0-4 bar/psi	G1/8B	1/50
M3F-40	PD1506DI00	0-6 bar/psi	G1/8B	1/50
M3F-40	PD1510DI00	0-10 bar/psi	G1/8B	1/50
M3F-40	PD1516DI00	0-16 bar/psi	G1/8B	1/50
M3F-40		0-25 bar/psi	G1/8B	1/50
M3F-40		0-40 bar/psi	G1/8B	1/50

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

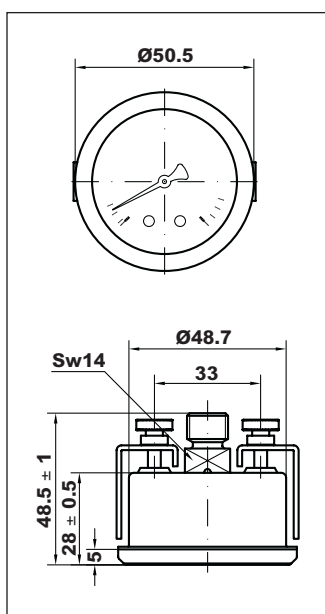


M3F-50

EX F+R 152 DN50
Dry Steel Case DN50 Centre Back Entry with Panel Mounting Brackets

Materials

Case and brackets:	Zinc-plated steel
Triangular ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.108 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3F-50	PD2401EJ00	-1/0 bar/inHg	G1/4B	1/50
M3F-50		0-1 bar/psi	G1/4B	1/50
M3F-50		0-1.6 bar/psi	G1/4B	1/50
M3F-50	PD250314	0-2.5 bar/psi	G1/4B	1/50
M3F-50		0-4 bar/psi	G1/4B	1/50
M3F-50	PD2506DJ00	0-6 bar/psi	G1/4B	1/50
M3F-50	PD2510DJ00	0-10 bar/psi	G1/4B	1/50
M3F-50	PD2516DJ00	0-16 bar/psi	G1/4B	1/50
M3F-50		0-25 bar/psi	G1/4B	1/50
M3F-50		0-40 bar/psi	G1/4B	1/50

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3F-63

EX F+R 152 DN63

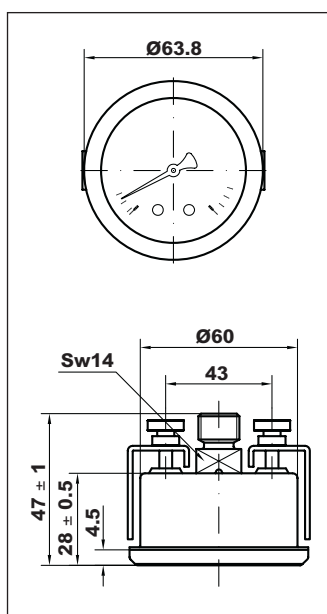
Dry Steel Case DN63 Centre Back Entry with Panel Mounting Brackets

Materials

Case and brackets:	Zinc-plated steel
Triangular ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.146 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3F-63	PD3401EJ00	-1/0 bar/inHg	G1/4B	1/50
M3F-63	PD3401DJ01	0-1 bar/psi	G1/4B	1/50
M3F-63		0-1.6 bar/psi	G1/4B	1/50
M3F-63	PD3503DJ00	0-2.5 bar/psi	G1/4B	1/50
M3F-63	PD3504DJ00	0-4 bar/psi	G1/4B	1/50
M3F-63	PD3506DJ00	0-6 bar/psi	G1/4B	1/50
M3F-63	PD3510DJ00	0-10 bar/psi	G1/4B	1/50
M3F-63	PD3516DJ01	0-16 bar/psi	G1/4B	1/50
M3F-63		0-25 bar/psi	G1/4B	1/50
M3F-63		0-40 bar/psi	G1/4B	1/50

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

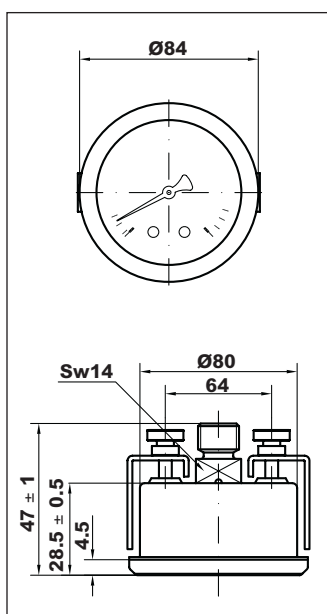


M3F-80

EX F+R 152 DN80
Dry Steel Case DN80 Centre Back Entry with Panel Mounting Brackets

Materials

Case and brackets:	Zinc-plated steel
Triangular ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.248 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3F-80		-1/0 bar	G1/4B	1/18
M3F-80		0-1 bar	G1/4B	1/18
M3F-80		0-1.6 bar	G1/4B	1/18
M3F-80		0-2.5 bar	G1/4B	1/18
M3F-80		0-4 bar	G1/4B	1/18
M3F-80		0-6 bar	G1/4B	1/18
M3F-80		0-10 bar	G1/4B	1/18
M3F-80		0-16 bar	G1/4B	1/18
M3F-80		0-25 bar	G1/4B	1/18
M3F-80		0-40 bar	G1/4B	1/18

FOR PANEL MOUNTING IN GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3F-100

EX F+R 152 DN100

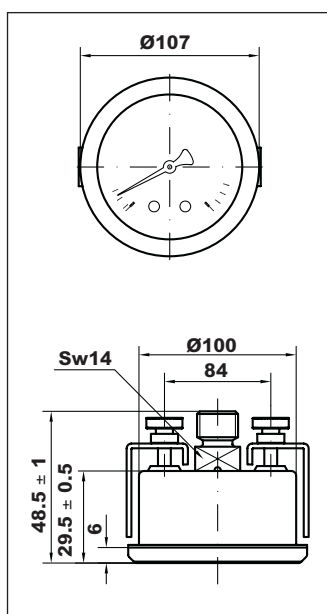
Dry Steel Case DN100 Centre Back Entry with Panel Mounting Brackets

Materials

Case and brackets:	Zinc-plated steel
Triangular ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 43 per EN 60 529 / IEC 529
Individual Weight:	0.181 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3F-100		-1/0 bar	G1/4B	1/18
M3F-100		0-1 bar	G1/4B	1/18
M3F-100		0-1.6 bar	G1/4B	1/18
M3F-100		0-2.5 bar	G1/4B	1/18
M3F-100		0-4 bar	G1/4B	1/18
M3F-100		0-6 bar	G1/4B	1/18
M3F-100		0-10 bar	G1/4B	1/18
M3F-100		0-16 bar	G1/4B	1/18
M3F-100		0-25 bar	G1/4B	1/18
M3F-100		0-40 bar	G1/4B	1/18

OPTIONAL EXTRAS

M3F-40/50/63/80/100

Options subject to minimum quantity

Z - Restrictor 0.5mm

M3F-40/50/63/80/100

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+VV)

M3F-40/50/63/80/100



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M3F-40/50/63/80/100

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M1-40 INOX

EX F+R 251 DN40

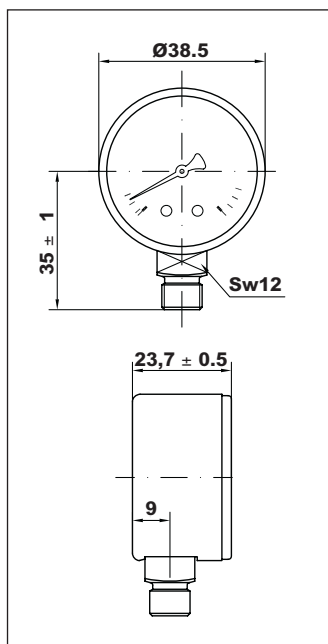
Dry Stainless Steel DN40 Bottom Entry

Materials

Case:	Stainless steel 1.4301
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.065 kg



Type	Part No.	Pressure Range	Connection	Packaging
M1-40 INOX		0-1.6 bar	G1/8B	240/240
M1-40 INOX		0-2.5 bar	G1/8B	240/240
M1-40 INOX		0-4 bar	G1/8B	240/240
M1-40 INOX		0-6 bar	G1/8B	240/240
M1-40 INOX		0-10 bar	G1/8B	240/240
M1-40 INOX		0-16 bar	G1/8B	240/240
M1-40 INOX		0-25 bar	G1/8B	240/240
M1-40 INOX		0-40 bar	G1/8B	240/240
M1-40 INOX		0-60 bar	G1/8B	240/240
M1-40 INOX		0-100 bar	G1/8B	240/240
M1-40 INOX		0-160 bar	G1/8B	240/240
M1-40 INOX		0-250 bar	G1/8B	240/240
M1-40 INOX		0-315 bar	G1/8B	240/240
M1-40 INOX		0-400 bar	G1/8B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



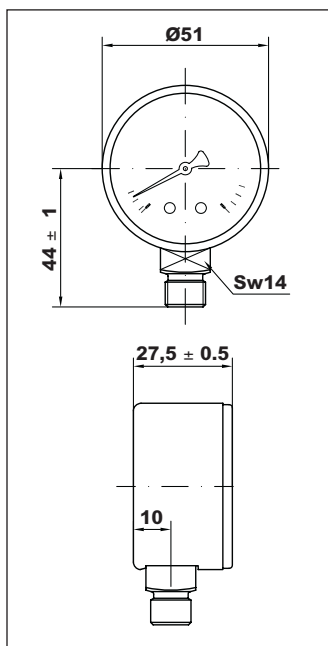
M1-50 INOX

EX F+R 251 DN50

Dry Stainless Steel DN50 Bottom Entry

Materials

Case:	Stainless steel 1.4301
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.105 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-50 INOX		-1/0 bar	G1/4B	100/100
M1-50 INOX		0-1 bar	G1/4B	100/100
M1-50 INOX		0-1.6 bar	G1/4B	100/100
M1-50 INOX		0-2.5 bar	G1/4B	100/100
M1-50 INOX		0-4 bar	G1/4B	100/100
M1-50 INOX		0-6 bar	G1/4B	100/100
M1-50 INOX		0-10 bar	G1/4B	100/100
M1-50 INOX		0-16 bar	G1/4B	100/100
M1-50 INOX		0-25 bar	G1/4B	100/100
M1-50 INOX		0-40 bar	G1/4B	100/100
M1-50 INOX		0-60 bar	G1/4B	100/100
M1-50 INOX		0-100 bar	G1/4B	100/100
M1-50 INOX		0-160 bar	G1/4B	100/100
M1-50 INOX		0-250 bar	G1/4B	100/100
M1-50 INOX		0-315 bar	G1/4B	100/100
M1-50 INOX		0-400 bar	G1/4B	100/100

M1- 50 INOX



Options subject to minimum quantity

R - adjustable red mark pointer

M1- 40/50 INOX

Options subject to minimum quantity

Z - Restrictor 0.5mm

M1- 40/50 INOX

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+AX+VV)

M1- 40/50 INOX



Options subject to minimum quantity

AX+VV - Bezel ring + instrument glass

M1- 40/50 INOX



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

M1- 40/50 INOX

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-40 INOX

EX F+R 151 DN40

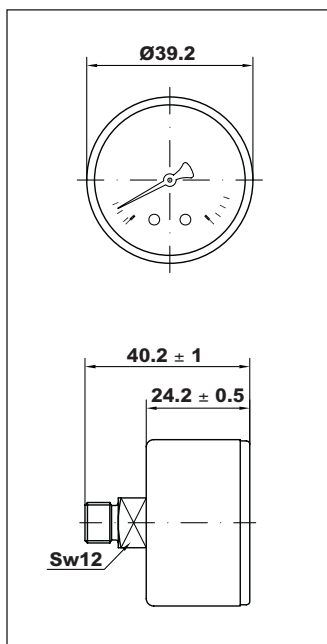
Dry Stainless Steel DN40 Centre Back Entry

Materials

Case:	Stainless steel 1.4301
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 12 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.069 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-40 INOX		-1/0 bar	G1/8B	240/240
M3A-40 INOX		0-1 bar	G1/8B	240/240
M3A-40 INOX		0-1.6 bar	G1/8B	240/240
M3A-40 INOX		0-2.5 bar	G1/8B	240/240
M3A-40 INOX		0-4 bar	G1/8B	240/240
M3A-40 INOX		0-6 bar	G1/8B	240/240
M3A-40 INOX		0-10 bar	G1/8B	240/240
M3A-40 INOX		0-16 bar	G1/8B	240/240
M3A-40 INOX	PK1825B100	0-25 bar	G1/8B	240/240
M3A-40 INOX		0-40 bar	G1/8B	240/240
M3A-40 INOX		0-60 bar	G1/8B	240/240
M3A-40 INOX		0-100 bar	G1/8B	240/240
M3A-40 INOX		0-160 bar	G1/8B	240/240
M3A-40 INOX		0-250 bar	G1/8B	240/240
M3A-40 INOX		0-315 bar	G1/8B	240/240
M3A-40 INOX		0-400 bar	G1/8B	240/240

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-50 INOX

EX F+R 151 DN50

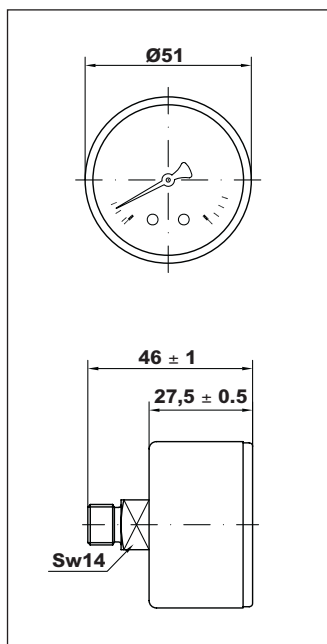
Dry Stainless Steel DN50 Centre Back Entry

Materials

Case:	Stainless steel 1.4301
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 2.5, cl. 1.6 on request
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.119 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-50 INOX		-1/0 bar	G1/4B	100/100
M3A-50 INOX		0-1 bar	G1/4B	100/100
M3A-50 INOX		0-1.6 bar	G1/4B	100/100
M3A-50 INOX		0-2.5 bar	G1/4B	100/100
M3A-50 INOX		0-4 bar	G1/4B	100/100
M3A-50 INOX	PK2506BB00	0-6 bar	G1/4B	100/100
M3A-50 INOX		0-10 bar	G1/4B	100/100
M3A-50 INOX		0-16 bar	G1/4B	100/100
M3A-50 INOX		0-25 bar	G1/4B	100/100
M3A-50 INOX		0-40 bar	G1/4B	100/100
M3A-50 INOX		0-60 bar	G1/4B	100/100
M3A-50 INOX		0-100 bar	G1/4B	100/100
M3A-50 INOX		0-160 bar	G1/4B	100/100
M3A-50 INOX		0-250 bar	G1/4B	100/100
M3A-50 INOX		0-315 bar	G1/4B	100/100
M3A-50 INOX		0-400 bar	G1/4B	100/100

OPTIONAL EXTRAS

M3A-50 INOX



Options subject to minimum quantity

R - adjustable red mark pointer

M3A-40/50 INOX

High temperature version c.l. 2.5 only

Options subject to minimum quantity

T2 - 40°C/+90°C - Aluminium dial + aluminium pointer (QA+I)

T1 - 40°C/+120°C - Aluminium dial + aluminium pointer + bezel ring + instrument glass (QA+I+AX+VV)

M3A-40/50 INOX

Options subject to minimum quantity

Z - Restrictor 0.5mm

M3A- 40/50 INOX



Options subject to minimum quantity

AX+VV - Bezel ring + instrument glass

M3A-40/50 INOX



Options subject to minimum quantity

AT - PTFE sealing ring on parallel threads only

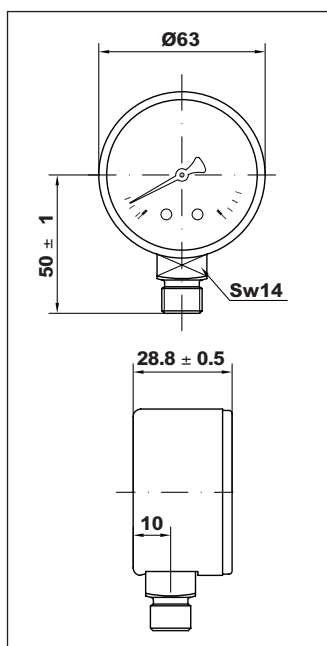
M3A-40/50 INOX

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request


M1-ABS 63/QG
EX F+R 280 DN63
Dry Plastic Case DN63 Bottom Entry
Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy


Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.089 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 63/QG		0-12 bar/psi	G1/4B	100/100

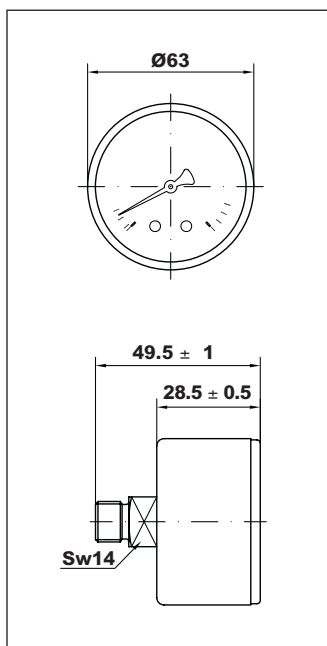


M3A-ABS 63/QG

EX F+R 180 DN63
Dry Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60°C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.109 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63/QG		0-10 bar/psi	G1/4B	100/100



M3A-ABS 80/QG

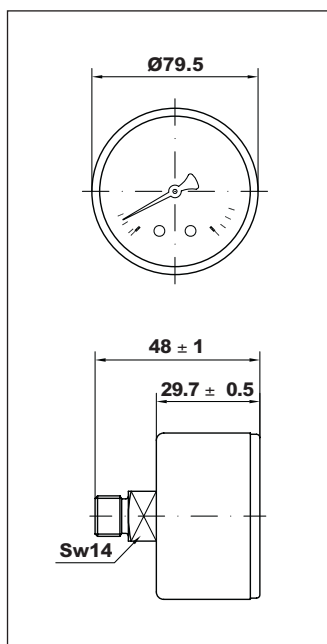
EX F+R 180 DN80
Dry Plastic Case DN80 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60°C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.109 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 80/QG		0-10 bar/psi	G1/4B	1/50

OPTIONAL EXTRAS

M1-ABS 63/QG
M3A-ABS 63/QG


Type	Part No.	Description
CP M1-63	PCUSGOM001	Protective rubber cap
CP M3A-63	PCUSGOM002	Protective rubber cap

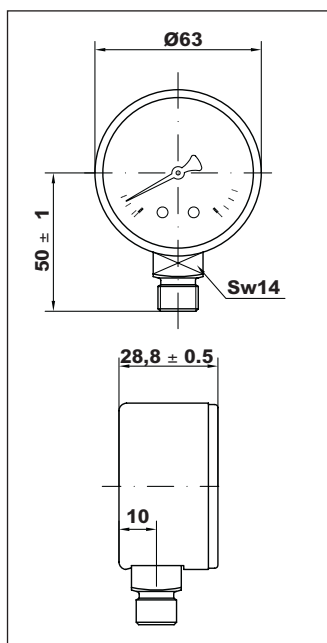
M1-ABS 63/QG
M3A-ABS 63/80/QG

Options subject to minimum quantity

Customized dials, other connections on request


M1-ABS 63/CEE
EX F+R 280 DN63
Dry Plastic Case DN63 Bottom Entry
Materials

Case:	Black plastic
Window:	Clear plastic, Ultra-Sonic welded
Dial:	White plastic, without pointer stopper
Pointer:	Black aluminium, knife-edge type
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

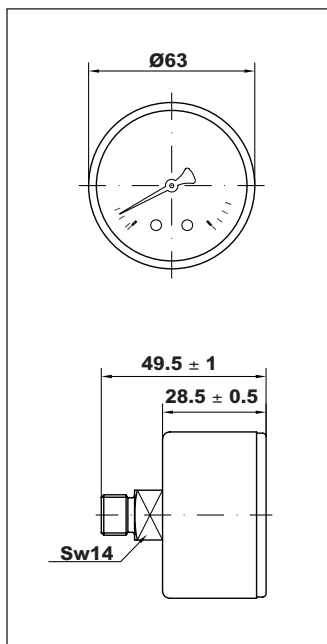

Technical Specifications

Design:	EEC No. 83/575
Approval:	No.00,04,01,002
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +40 °C Medium: +40 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 0.08 ≤ 4 bar, > 4bar cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.089 kg

Type	Part No.	Pressure Range	Connection	Packaging
M1-ABS 63/CEE		0-10 bar/psi	G1/4B	100/100

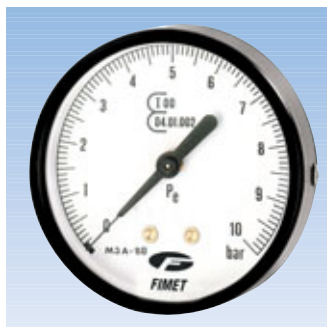

M3A-ABS 63/CEE
EX F+R 180 DN63
Dry Plastic Case DN63 Centre Back Entry
Materials

Case:	Black plastic
Window:	Clear plastic, Ultra-Sonic welded
Dial:	White plastic, without pointer stopper
Pointer:	Black aluminium, knife-edge type
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy

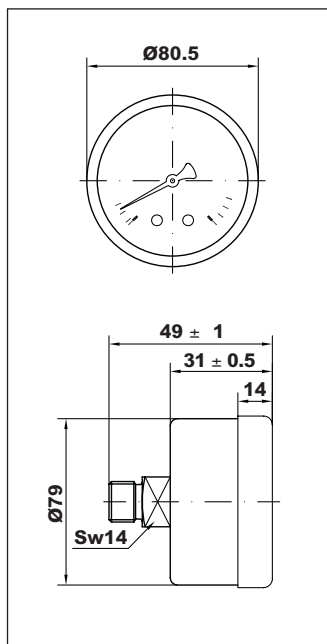

Technical Specifications

Design:	EEC No. 83/575
Approval:	No.00,04,01,002
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +40 °C Medium: +40 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 0.08 ≤ 4 bar, > 4bar cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.094 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 63/CEE		0-10 bar/psi	G1/4B	100/100


M3A-80/CEE
EX F+R 180 DN80
Dry Steel Case DN80 Centre Back Entry
Materials

Case + bezel ring:	Black steel, powder coated, sealed by rivets
Window:	Clear plastic
Dial:	White plastic, without pointer stopper
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered C-type
Movement:	Cu-alloy


Technical Specifications

Design:	EEC No. 83/575
Approval:	No.00,04,01,002
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +40 °C Medium: +40 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 0.08 ≤ 4 bar, > 4bar cl. 1.6
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.156 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-80/CEE		0-10 bar	G1/4B	1/50

Options : see below

OPTIONAL EXTRAS

M1-ABS 63/CEE
M3A-ABS 63/CEE
M3A-80/CEE

Options subject to minimum quantity

Company logo on the dial, other connections on request

FOR PNEUMATIC APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



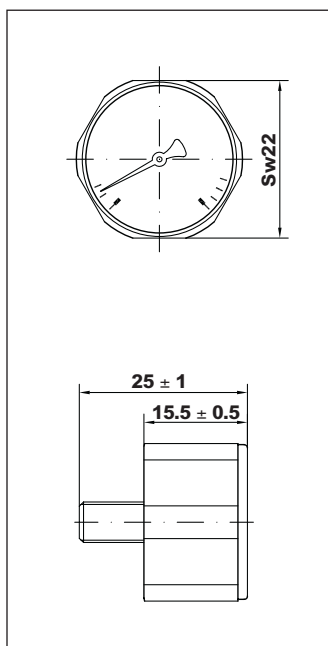
M3A-OTT 23

EX F+R 123 DN23

Dry Brass Case DN23 Centre Back Entry

Materials

Case/connection:	Cu-alloy, in one-piece
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 22 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy/polyester combination



Technical Specifications

Design:	According to EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 4.0
Degree of protection:	IP 54 per EN 60 529 / IEC 529
Individual Weight:	0.020 kg

Type	Part No.	Pressure Range	Connection	Packaging
M3A-OTT 23	004231234317	0-4 bar	G1/8B	500/500
M3A-OTT 23	006231234318	0-6 bar	G1/8B	500/500
M3A-OTT 23	010231234319	0-10 bar	G1/8B	500/500
M3A-OTT 23	016231236507	0-16 bar	G1/8B	500/500

FOR PNEUMATIC APPLICATIONS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



M3A-ABS 23

EX F+R 423 DN23

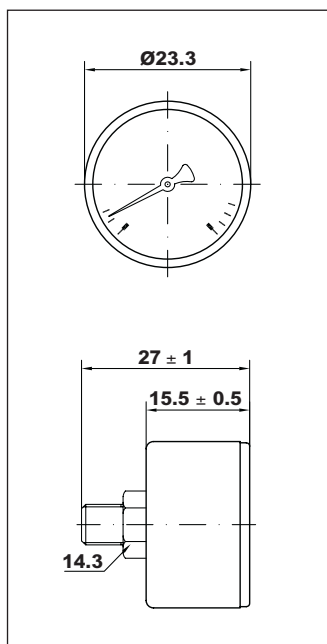
Dry Plastic Case DN23 Centre Back Entry

Materials

Case/connection:	Black plastic, in one-piece
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Plastic, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy/polyester combination

Technical Specifications

Design:	According to EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class:	cl. 4.0
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.010 kg



Type	Part No.	Pressure Range	Connection	Packaging
M3A-ABS 23		0-4 bar	G1/8B	500/500
M3A-ABS 23	006234235662	0-6 bar	G1/8B	500/500
M3A-ABS 23	010234235642	0-10 bar	G1/8B	500/500
M3A-ABS 23	016234235498	0-16 bar	G1/8B	500/500

OPTIONAL EXTRAS

M3A-OTT 23/NIC



Options subject to minimum quantity

Brass nickel-plated

M3A-OTT 23

M3A-ABS 23

Options subject to minimum quantity

Z3 - Restrictor 0.35mm

M3A-OTT 23

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

M3A-ABS 23

Options subject to minimum quantity

Customized dials, other scale ranges on request

FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS.
SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND
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MG1-ABS 63

EX F+R 204 DN63

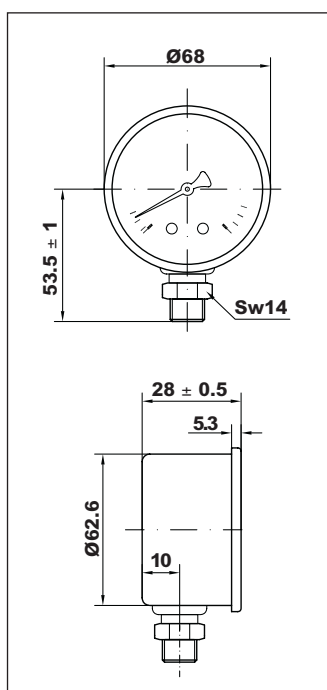
Glycerine Filled Plastic Case DN63 Bottom Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.154 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG1-ABS 63		-1/0 bar/inHg	G1/4B	100/100
MG1-ABS 63		0-1 bar/psi	G1/4B	100/100
MG1-ABS 63		0-1.6 bar/psi	G1/4B	100/100
MG1-ABS 63		0-2.5 bar/psi	G1/4B	100/100
MG1-ABS 63	PE3204DJ01	0-4 bar/psi	G1/4B	100/100
MG1-ABS 63	PE3206DJ00	0-6 bar/psi	G1/4B	100/100
MG1-ABS 63	PE321014	0-10 bar/psi	G1/4B	100/100
MG1-ABS 63		0-16 bar/psi	G1/4B	100/100
MG1-ABS 63		0-25 bar/psi	G1/4B	100/100
MG1-ABS 63		0-40 bar/psi	G1/4B	100/100
MG1-ABS 63		0-60 bar/psi	G1/4B	100/100
MG1-ABS 63		0-100 bar/psi	G1/4B	100/100
MG1-ABS 63	PE3354DJ00	0-160 bar/psi	G1/4B	100/100
MG1-ABS 63		0-250 bar/psi	G1/4B	100/100
MG1-ABS 63	PE3362DJ00	0-315 bar/psi	G1/4B	100/100
MG1-ABS 63	PE336614	0-400 bar/psi	G1/4B	100/100
MG1-ABS 63		0-600 bar/psi	G1/4B	100/100

OPTIONAL EXTRAS

MG1-ABS 63

Options subject to minimum quantity

Z - Restrictor 0.5mm for ranges < 40 bar**Z0** - Without restrictor for ranges ≥ 40 bar**MG1-ABS 63**

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS.
SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND
ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3A-ABS 40

EX F+R 104 DN40

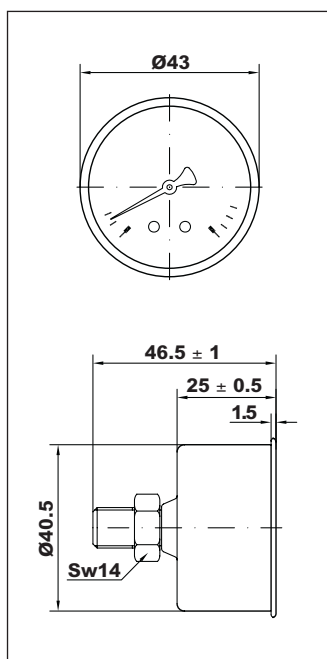
Glycerine Filled Plastic Case DN40 Centre Back Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by piercing a hole on the rear side
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 2.5
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.075 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-ABS 40		0-4 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-6 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-10 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-16 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-25 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-100 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-160 bar/psi	G1/8B	240/240
MG3A-ABS 40	PF1360DA00	0-250 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-315 bar/psi	G1/8B	240/240
MG3A-ABS 40		0-400 bar/psi	G1/8B	240/240

FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS.
SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE
AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3A-ABS 50

EX F+R 104 DN50

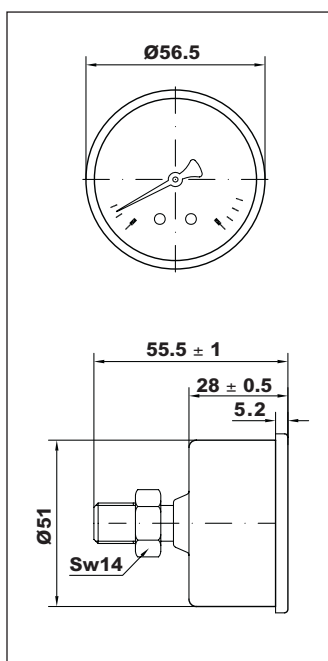
Glycerine Filled Plastic Case DN50 Centre Back Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0.04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.126 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-ABS 50		-1/0 bar/inHg	G1/4B	50/50
MG3A-ABS 50		0-1 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-1.6 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-2.5 bar/psi	G1/4B	50/50
MG3A-ABS 50	PF2204DJ00	0-4 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-6 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-10 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-16 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-25 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-40 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-60 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-100 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-160 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-250 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-315 bar/psi	G1/4B	50/50
MG3A-ABS 50	PF2366DB00	0-400 bar/psi	G1/4B	50/50
MG3A-ABS 50		0-600 bar/psi	G1/4B	50/50

FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS.
SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND
ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3A-ABS 63

EX F+R 104 DN63

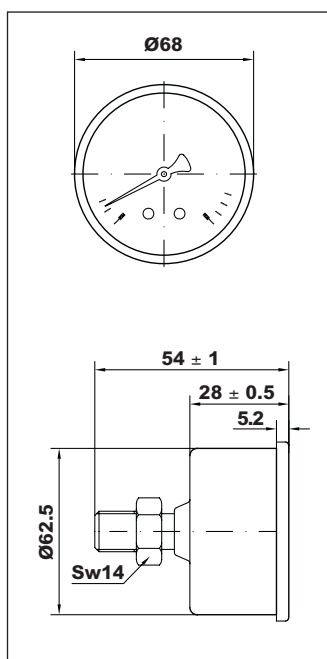
Glycerine Filled Plastic Case DN63 Centre Back Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.166 kg

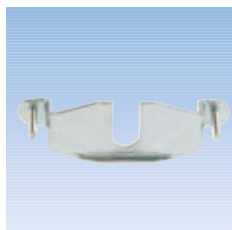


Type	Part No.	Pressure Range	Connection	Packaging
MG3A-ABS 63		-1/0 bar/inHg.	G1/4B	50/50
MG3A-ABS 63		0-1 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-1.6 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-2.5 bar/psi	G1/4B	50/50
MG3A-ABS 63	PF3204DJ01	0-4 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-6 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-10 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-16 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-25 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-40 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-60 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-100 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-160 bar/psi	G1/4B	50/50
MG3A-ABS 63	PF336024	0-250 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-315 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-400 bar/psi	G1/4B	50/50
MG3A-ABS 63		0-600 bar/psi	G1/4B	50/50

Options : see page 98

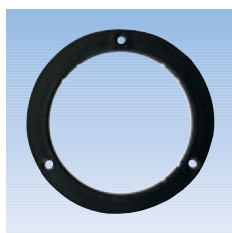
OPTIONAL EXTRAS

MG3A-ABS 50 MG3A-ABS 63



Type	Part No.	Description	DN
S ABS 50	PMINACC048	Mounting Bracket - Supplied separately	50
S ABS 63	PMINACC046	Mounting Bracket - Supplied separately	63

MG3A-ABS 63



Type	Part No.	Description
F ABS 63	PMINABS048	3-hole flange supplied separately
FM		3-hole flange supplied mounted

MG3A-ABS 40/50/63

Options subject to minimum quantity	
Z	- Restrictor 0.5mm for ranges < 40 bar
Z0	- Without restrictor for ranges ≥ 40 bar

MG3A-ABS 40/50/63

Options subject to minimum quantity
Customized dials, other scale ranges or connections on request

HGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



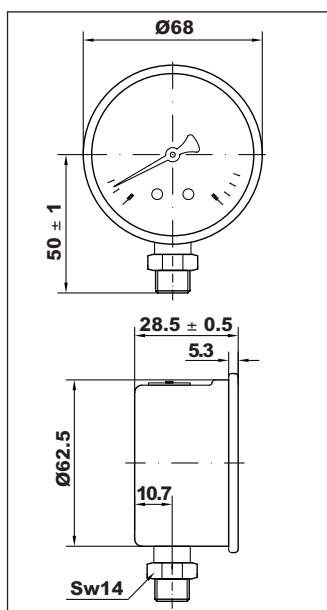
MG1-INOX 63

EX F+R 214 DN63

Glycerine Filled Stainless Steel Case DN63 Bottom Entry

Materials

Case + roll on bezel:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.206 kg

Type	Part No.	Pressure Range	Connection	Packaging
MG1-INOX 63	PE3401DJ03	-1/0 bar/inHg	G1/4B	100/100
MG1-INOX 63		0-1 bar/psi	G1/4B	100/100
MG1-INOX 63	PE340214	0-1.6 bar/psi	G1/4B	100/100
MG1-INOX 63		0-2.5 bar/psi	G1/4B	100/100
MG1-INOX 63	PE3504DJ03	0-4 bar/psi	G1/4B	100/100
MG1-INOX 63		0-6 bar/psi	G1/4B	100/100
MG1-INOX 63	PE3510DJ07	0-10 bar/psi	G1/4B	100/100
MG1-INOX 63	PE3516DJ06	0-16 bar/psi	G1/4B	100/100
MG1-INOX 63	PE3525DJ03	0-25 bar/psi	G1/4B	100/100
MG1-INOX 63	PE354014	0-40 bar/psi	G1/4B	100/100
MG1-INOX 63	PE364414	0-60 bar/psi	G1/4B	100/100
MG1-INOX 63	PE364814	0-100 bar/psi	G1/4B	100/100
MG1-INOX 63	PE365414	0-160 bar/psi	G1/4B	100/100
MG1-INOX 63	PE366014	0-250 bar/psi	G1/4B	100/100
MG1-INOX 63	PE366214	0-315 bar/psi	G1/4B	100/100
MG1-INOX 63	PE366614	0-400 bar/psi	G1/4B	100/100
MG1-INOX 63	PE367014	0-600 bar/psi	G1/4B	100/100

Options : see page 101

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG1-INOX 100

EX F+R 214 DN100

Glycerine Filled Stainless Steel Case DN100 Bottom Entry

Materials

Case + roll on bezel:

Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top

Window:

Clear plastic

Dial:

White plastic

Pointer:

Black plastic

Pressure connection:

Cu-alloy, 21 mm flats, ≥ 40 bar restrictor 0.5mm

Pressure element:

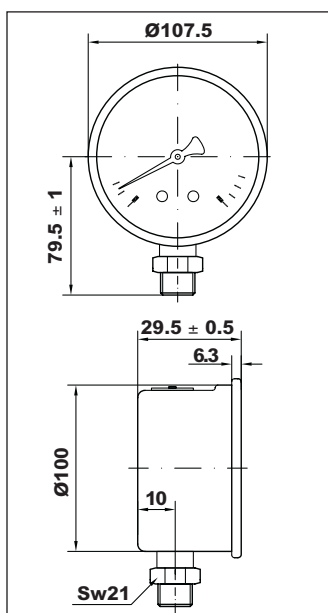
Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type

Movement:

Cu-alloy

Liquid filling:

Glycerine 86.5%



Technical Specifications

Design:

EN 837-1

Working pressure:

Steady: 75 % of full scale value

Fluctuating: 60 % of full scale value

Short time: full scale value

Operating temperature:

Ambient: -10 ... +60 °C

Medium: +60 °C maximum

Storage: -10 ... +60 °C

Temperature effect:

Deviation from reference temperature (+20°C): $\pm 0.04\%/1K$ of the span

Accuracy class:

cl. 1.6

Degree of protection:

IP 65 per EN 60 529 / IEC 529

Individual Weight:

0.526 kg

Type	Part No.	Pressure Range	Connection	Packaging
MG1-INOX 100	PE509916	-1/0 bar/inHg	G1/2B	1/30
MG1-INOX 100	PE540116	0-1 bar/psi	G1/2B	1/30
MG1-INOX 100	PE540216	0-1.6 bar/psi	G1/2B	1/30
MG1-INOX 100	PE550316	0-2.5 bar/psi	G1/2B	1/30
MG1-INOX 100	PE550416	0-4 bar/psi	G1/2B	1/30
MG1-INOX 100		0-6 bar/psi	G1/2B	1/30
MG1-INOX 100	PE5510DJ01	0-10 bar/psi	G1/2B	1/30
MG1-INOX 100		0-16 bar/psi	G1/2B	1/30
MG1-INOX 100		0-25 bar/psi	G1/2B	1/30
MG1-INOX 100	PE554016	0-40 bar/psi	G1/2B	1/30
MG1-INOX 100	PE554416	0-60 bar/psi	G1/2B	1/30
MG1-INOX 100	PE564816	0-100 bar/psi	G1/2B	1/30
MG1-INOX 100	PE565416	0-160 bar/psi	G1/2B	1/30
MG1-INOX 100	PE566016	0-250 bar/psi	G1/2B	1/30
MG1-INOX 100	PE566216	0-315 bar/psi	G1/2B	1/30
MG1-INOX 100	PE566616	0-400 bar/psi	G1/2B	1/30
MG1-INOX 100	PE567016	0-600 bar/psi	G1/2B	1/30

MG1-INOX 63/100

Options subject to minimum quantity

Z - Restrictor 0.5mm for ranges < 40 bar**Z0** - Without restrictor for ranges $\geq$ 40 bar**MG1-INOX 63/100**

Options subject to minimum quantity

Silicone Oil filling for temperatures -40+90°C (Aluminium dial + Aluminium pointer)**MG1-INOX 63/100**

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS

MG3A-INOX 63

EX F+R 114 DN63

Glycerine Filled Stainless Steel Case DN63 Centre Back Entry



Materials

Case + roll on bezel:

Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top

Window:

Clear plastic

Dial:

White plastic

Pointer:

Black plastic

Pressure connection:

Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm

Pressure element:

Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type

Movement:

Cu-alloy

Liquid filling:

Glycerine 86.5%

Technical Specifications

Design:

EN 837-1

Working pressure:

Steady: 75 % of full scale value

Fluctuating: 60 % of full scale value

Short time: full scale value

Operating temperature:

Ambient: $-10 \dots +60$ °C

Medium: $+60$ °C maximum

Storage: $-10 \dots +60$ °C

Temperature effect:

Deviation from reference temperature ($+20$ °C):

$\pm 0,04\%/1K$ of the span

Accuracy class:

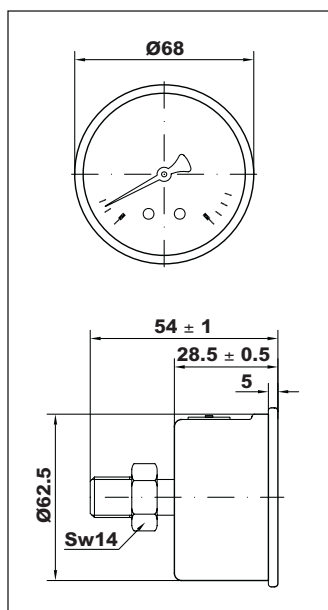
cl. 1.6

Degree of protection:

IP 65 per EN 60 529 / IEC 529

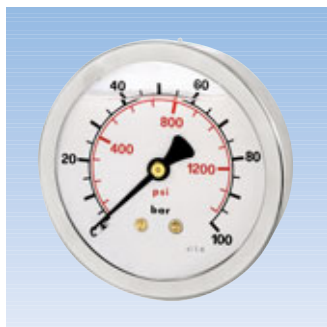
Individual Weight:

0.209 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-INOX 63		-1/0 bar/inHg	G1/4B	50/50
MG3A-INOX 63	PF340114	0-1 bar/psi	G1/4B	50/50
MG3A-INOX 63		0-1.6 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF3503DJ00	0-2.5 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF3504DJ00	0-4 bar/psi	G1/4B	50/50
MG3A-INOX 63		0-6 bar/psi	G1/4B	50/50
MG3A-INOX 63		0-10 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF3516DJ03	0-16 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF352514	0-25 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF354014	0-40 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF364414	0-60 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF364814	0-100 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF365414	0-160 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF366014	0-250 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF366214	0-315 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF366614	0-400 bar/psi	G1/4B	50/50
MG3A-INOX 63	PF367014	0-600 bar/psi	G1/4B	50/50

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3A-INOX 100

EX F+R 114 DN100

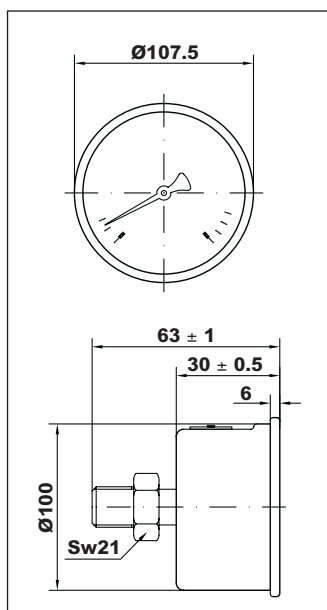
Glycerine Filled Stainless Steel Case DN100 Centre Back Entry

Materials

Case + roll on bezel:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 21 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.506 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-INOX 100	PF509916	-1/0 bar/inHg	G1/2B	1/12
MG3A-INOX 100	PF540116	0-1 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF5402DL00	0-1.6 bar/psi	G1/2B	1/12
MG3A-INOX 100		0-2.5 bar/psi	G1/2B	1/12
MG3A-INOX 100		0-4 bar/psi	G1/2B	1/12
MG3A-INOX 100		0-6 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF551016	0-10 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF551616	0-16 bar/psi	G1/2B	1/12
MG3A-INOX 100		0-25 bar/psi	G1/2B	1/12
MG3A-INOX 100		0-40 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF564416	0-60 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF564816	0-100 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF565416	0-160 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF566016	0-250 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF566216	0-315 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF566616	0-400 bar/psi	G1/2B	1/12
MG3A-INOX 100	PF567016	0-600 bar/psi	G1/2B	1/12

OPTIONAL EXTRAS

MG3A-INOX 63



Type	Part No.	Description
S INOX 63	PMINACC047	Mounting bracket - Supplied separately

MG3A-INOX 63/100

Options subject to minimum quantity

Z - Restrictor 0.5mm for ranges < 40 bar

Z0 - Without restrictor for ranges ≥ 40 bar

MG3A-INOX 63/100

Options subject to minimum quantity

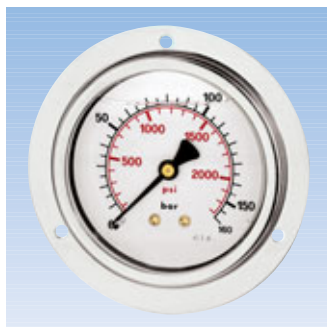
Silicone Oil filling for temperatures -40+90°C (Aluminium dial + Aluminium pointer)

MG3A-INOX 63/100

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3B-INOX 63

EX F+R 125 DN63

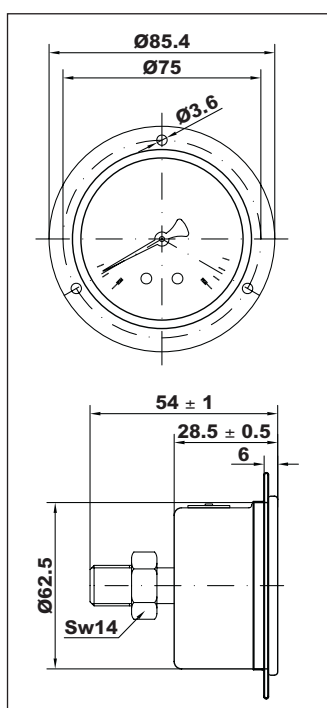
Glycerine Filled Stainless Steel Case DN63 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case + 3-hole flange:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.224 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3B-INOX 63	PG309914	-1/0 bar/inHg	G1/4B	50/50
MG3B-INOX 63	PG340114	0-1 bar/psi	G1/4B	50/50
MG3B-INOX 63		0-1.6 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG350314	0-2.5 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG350414	0-4 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG350614	0-6 bar/psi	G1/4B	50/50
MG3B-INOX 63		0-10 bar/psi	G1/4B	50/50
MG3B-INOX 63		0-16 bar/psi	G1/4B	50/50
MG3B-INOX 63		0-25 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG354014	0-40 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG364414	0-60 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG364814	0-100 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG365414	0-160 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG366014	0-250 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG366214	0-315 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG366614	0-400 bar/psi	G1/4B	50/50
MG3B-INOX 63	PG367014	0-600 bar/psi	G1/4B	50/50

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3B-INOX 100

EX F+R 125 DN100

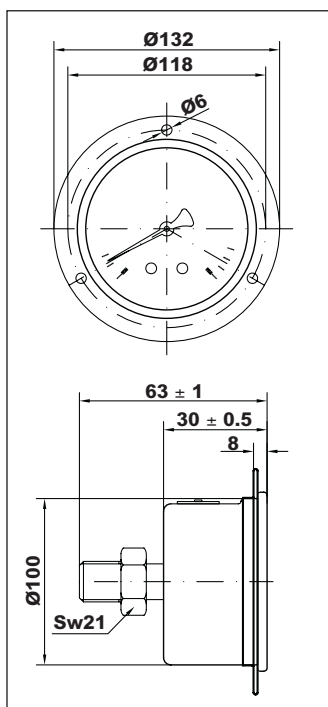
Glycerine Filled Stainless Steel Case DN100 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case + 3-hole flange:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 21 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.585 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3B-INOX 100	PG509916	-1/0 bar/inHg	G1/2B	1/12
MG3B-INOX 100		0-1 bar/psi	G1/2B	1/12
MG3B-INOX 100		0-1.6 bar/psi	G1/2B	1/12
MG3B-INOX 100		0-2.5 bar/psi	G1/2B	1/12
MG3B-INOX 100		0-4 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG550616	0-6 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG551016	0-10 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG551616	0-16 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG552516	0-25 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG554016	0-40 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG564416	0-60 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG564816	0-100 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG565416	0-160 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG566016	0-250 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG566216	0-315 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG566616	0-400 bar/psi	G1/2B	1/12
MG3B-INOX 100	PG567016	0-600 bar/psi	G1/2B	1/12

MG3B-INOX 63/100

Options subject to minimum quantity

Z - Restrictor 0.5mm for ranges < 40 bar**Z0** - Without restrictor for ranges $\geq$ 40 bar**MG3B-INOX 63/100**

Options subject to minimum quantity

Silicone Oil filling for temperatures -40+90°C (Aluminium dial + Aluminium pointer)**MG3B-INOX 63/100**

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

HIGHLY DURABLE, FOR APPLICATIONS SUBJECT TO VIBRATIONS, PULSATIONS AND HIGH DYNAMIC PRESSURE LOADS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOYS



MG3F-INOX 100

EX F+R 125 DN100

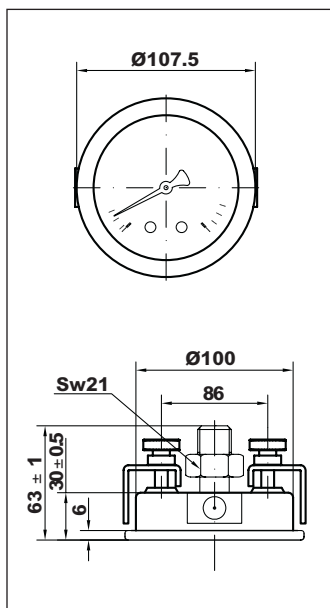
Glycerine Filled Stainless Steel Case DN100 Centre Back Entry with Panel Mounting Brackets

Materials

Case + roll on bezel:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Mounting brackets:	Zinc-plated steel
Window:	Clear plastic
Dial:	White plastic
Pointer:	Black plastic
Pressure connection:	Cu-alloy, 21 mm flats, ≥ 40 bar restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered ≤ 60 bar C-type, > 60 bar helical type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.535 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3F-INOX 100		-1/0 bar/inHg	G1/2B	1/12
MG3F-INOX 100		0-1 bar/psi	G1/2B	1/12
MG3F-INOX 100		0-1.6 bar/psi	G1/2B	1/12
MG3F-INOX 100		0-2.5 bar/psi	G1/2B	1/12
MG3F-INOX 100		0-4 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH550616	0-6 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH551016	0-10 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH551616	0-16 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH552516	0-25 bar/psi	G1/2B	1/12
MG3F-INOX 100		0-40 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH564416	0-60 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH564816	0-100 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH565416	0-160 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH566016	0-250 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH566216	0-315 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH566616	0-400 bar/psi	G1/2B	1/12
MG3F-INOX 100	PH567016	0-600 bar/psi	G1/2B	1/12

MG3F-INOX 100

Options subject to minimum quantity

Z - Restrictor 0.5mm for ranges < 40 bar**Z0** - Without restrictor for ranges $\geq$ 40 bar**MG3F-INOX 100**

Options subject to minimum quantity

Silicone Oil filling for temperatures -40+90°C (Aluminium dial + Aluminium pointer)**MG3F-INOX 100**

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR REFRIGERATION TECHNOLOGY (FREON GASES). ABSORPTION OF HEAVY VIBRATIONS AND PULSATIONS,
PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION



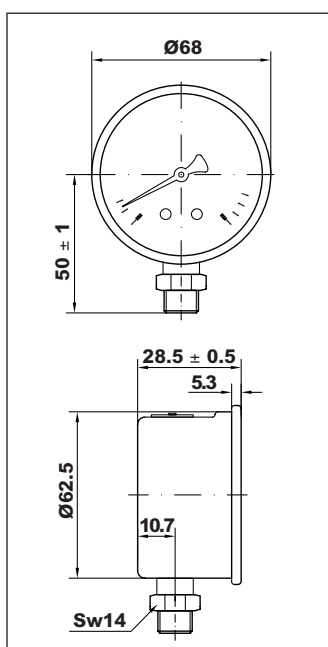
MG1-ABS 63/QF

EX F+R 204 DN63

Glycerine Filled Plastic Case DN63 Bottom Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats, with restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%



Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.154 kg

Type	Part No.	Pressure Range	Connection	Packaging
MG1-ABS 63/QF		-1 + 15 bar	1/4 SAE	100/100
MG1-ABS 63/QF		-1 + 30 bar	1/4 SAE	100/100

FOR REFRIGERATION TECHNOLOGY (FREON GASES). ABSORPTION OF HEAVY VIBRATIONS AND PULSATIONS,
PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION



MG3A-ABS 63/QF

EX F+R 104 DN63

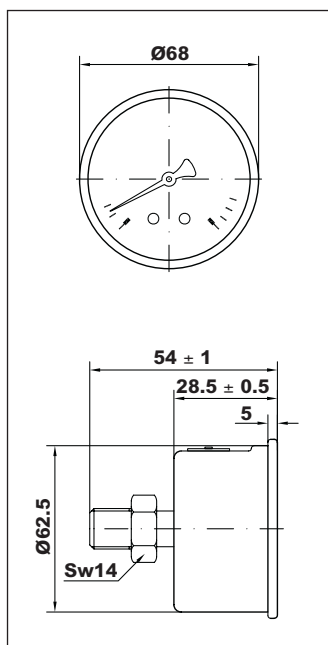
Glycerine Filled Plastic Case DN63 Centre Back Entry

Materials

Case:	ABS black with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	PMMA, Ultra-Sonic welded
Dial:	White plastic
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats, with restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.166 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-ABS 63/QF		-1 + 15 bar	1/4 SAE	50/50
MG3A-ABS 63/QF		-1 + 30 bar	1/4 SAE	50/50

OPTIONAL EXTRAS

MG1-ABS 63/QF



Type	Part No.	Description
S ABS 63	PMINACC046	Mounting bracket - Supplied separately

MG1-ABS 63/QF



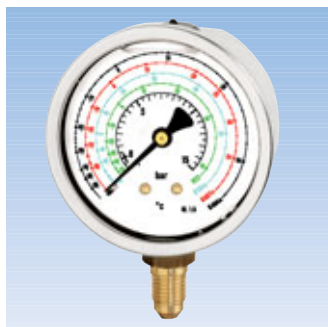
Type	Part No.	Description
F ABS 63	PMINABS048	3-hole flange supplied separately
FM		3-hole flange supplied mounted

MG1-ABS 63/QF - MG3A-ABS 63/QF

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

HIGHLY DURABLE, FOR REFRIGERATION TECHNOLOGY (FREON GASES). ABSORPTION OF HEAVY VIBRATIONS AND PULSATIONS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION



MG1-INOX 63/QF

EX F+R 215 DN63

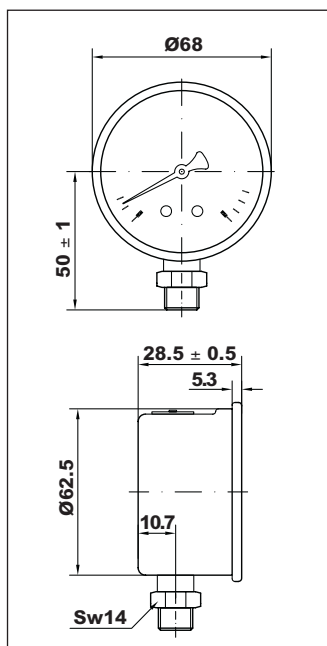
Glycerine Filled Stainless Steel Case DN63 Bottom Entry

Materials

Case + roll on bezel:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats, with restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

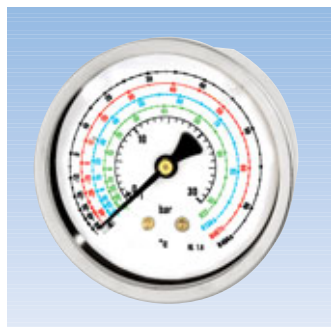
Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.206 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG1-INOX 63/QF		-1+15 bar	1/4 SAE	100/100
MG1-INOX 63/QF		-1 + 30 bar	1/4 SAE	100/100

HIGHLY DURABLE, FOR REFRIGERATION TECHNOLOGY (FREON GASES). ABSORPTION OF HEAVY VIBRATIONS AND PULSATIONS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION



MG3A-INOX 63/QF

EX F+R 115 DN63

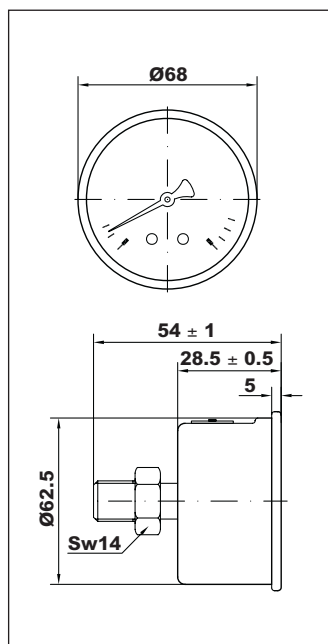
Glycerine Filled Stainless Steel Case DN63 Centre Back Entry

Materials

Case + roll on bezel:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats, with restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.209 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3A-INOX 63/QF		-1+15 bar	1/4 SAE	50/50
MG3A-INOX 63/QF		-1+30 bar	1/4 SAE	50/50

MG3A-INOX 63/QF



Type	Part No.	Description
S INOX 63	PMINACC047	Mounting bracket - Supplied separately

MG1-INOX 63/QF MG3A-INOX 63/QF

Options subject to minimum quantity
Silicone Oil filling for temperatures -40+90°C

MG1-INOX 63/QF MG3A-INOX 63/QF

Options subject to minimum quantity
Customized dials, other scale ranges or connections on request

HIGHLY DURABLE, FOR REFRIGERATION TECHNOLOGY (FREON GASES). ABSORPTION OF HEAVY VIBRATIONS AND PULSATIONS, PROTECTS AGAINST AMBIENT CORROSIVES AND CONDENSATION



MG3B-INOX 63/QF

EX F+R 115 DN63

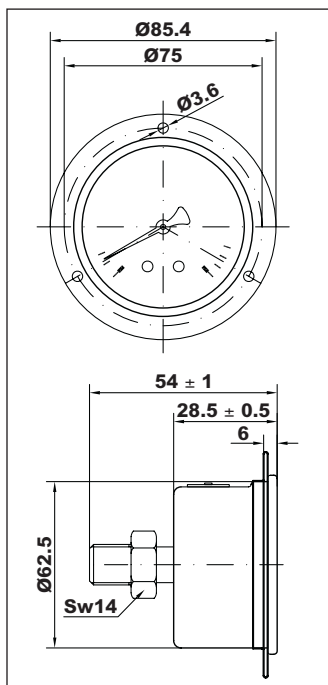
Glycerine Filled Stainless Steel Case DN63 Centre Back Entry with 3-Hole Panel Mounting Flange

Materials

Case + 3-hole flange:	Stainless Steel 1.4301 with blow out/ranges ≤ 16 bar to be vented by cutting the rubber nipple at the top
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black aluminium, knife edge type
Pressure connection:	Cu-alloy, 14 mm flats, with restrictor 0.5mm
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Liquid filling:	Glycerine 86.5%

Technical Specifications

Design:	EN 837-1
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Operating temperature:	Ambient: -10 ... +60 °C Medium: +60 °C maximum Storage: -10 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): $\pm 0,04\%/1K$ of the span
Accuracy class:	cl. 1.6
Degree of protection:	IP 65 per EN 60 529 / IEC 529
Individual Weight:	0.224 kg



Type	Part No.	Pressure Range	Connection	Packaging
MG3B-INOX 63/QF		-1+15 bar	1/4 SAE	50/50
MG3B-INOX 63/QF		-1+30 bar	1/4 SAE	50/50

Options : see below

OPTIONAL EXTRAS

MG3B-INOX 63/QF

Options subject to minimum quantity

Silicone Oil filling for temperatures -40+90°C

MG3B-INOX 63/QF

Options subject to minimum quantity

Customized dials, other scale ranges or connections on request

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR DRY AND CLEAN GASEOUS MEDIA WHICH ARE NOT AGGRESSIVE TO COPPER ALLOYS



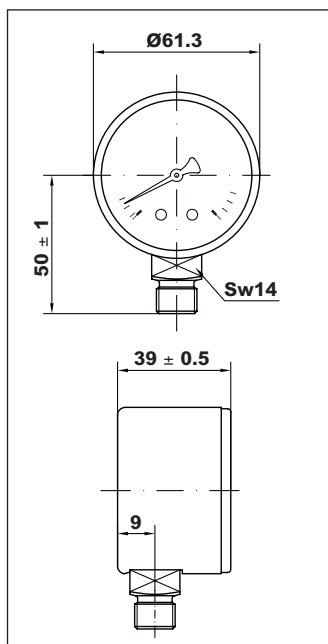
MP1-63

EX F+R 260 DN63

Dry Steel Case DN63 Bottom Entry

Materials

Case:	Chrome-plated steel
Window:	Clear plastic
Dial:	Aluminium white
Pointer:	Aluminium black
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Capsule Cu-alloy, O-ring Perbunan
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-3
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: 125% of full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,06%/1K of the span
Accuracy class:	cl. 2.5 with zero point adjustment
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.175 kg

Type	Part No.	Pressure Range	Connection	Packaging
MP1-63	PP35441003	0-60 mbar/mmH ² O	G1/4B	1/50
MP1-63	PP35481001	0-100 mbar/mmH ² O	G1/4B	1/50
MP1-63	PP35601000	0-250 mbar/mmH ² O	G1/4B	1/50
MP1-63	PP35661000	0-400 mbar/mmH ² O	G1/4B	1/50
MP1-63	PP35701000	0-600 mbar/mmH ² O	G1/4B	1/50

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR DRY AND CLEAN GASEOUS MEDIA WHICH ARE NOT AGGRESSIVE TO COPPER ALLOYS



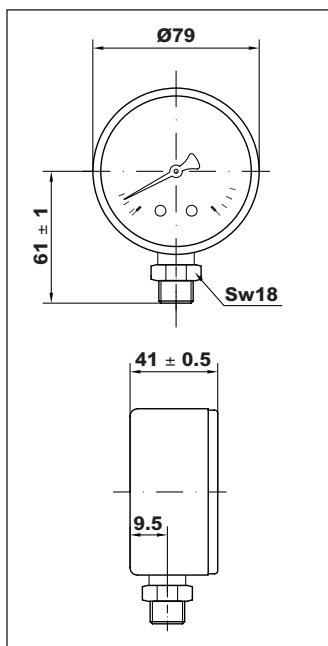
MP1-80

EX F+R 260 DN80

Dry Steel Case DN63 Bottom Entry

Materials

Case:	Chrome-plated steel
Window:	Clear plastic
Dial:	Aluminium white
Pointer:	Aluminium black
Pressure connection:	Cu-alloy, 18 mm flats
Pressure element:	Capsule Cu-alloy, O-ring Perbunan
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-3
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: 125% of full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,06%/1K of the span
Accuracy class:	cl. 2.5 with zero point adjustment
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.265 kg

Type	Part No.	Pressure Range	Connection	Packaging
MP1-80	PP45441100	0-60 mbar/mmH ² O	G3/8B	1/50
MP1-80	PP45481101	0-100 mbar/mmH ² O	G3/8B	1/50
MP1-80	PP45601100	0-250 mbar/mmH ² O	G3/8B	1/50
MP1-80	PP45661100	0-400 mbar/mmH ² O	G3/8B	1/50
MP1-80	PP45701100	0-600 mbar/mmH ² O	G3/8B	1/50

FOR GENERAL INDUSTRIAL APPLICATIONS. SUITABLE FOR DRY AND CLEAN GASEOUS MEDIA WHICH ARE NOT AGGRESSIVE TO COPPER ALLOYS



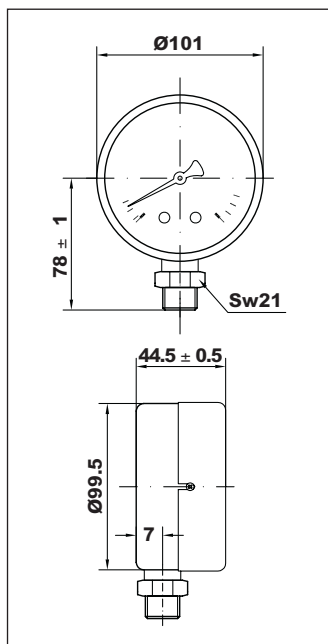
MP1-100

EX F+R 260 DN100

Dry Steel Case DN100 Bottom Entry

Materials

Case+ Bezel ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	Aluminium white
Pointer:	Aluminium black
Pressure connection:	Cu-alloy, 21 mm flats
Pressure element:	Capsule Cu-alloy, O-ring Perbunan
Movement:	Cu-alloy



Technical Specifications

Design:	EN 837-3
Working pressure:	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: 125% of full scale value
Operating temperature:	Ambient: -20 ... +60 °C Medium: +60 °C maximum Storage: -20 ... +60 °C
Temperature effect:	Deviation from reference temperature (+20°C): ±0,06%/1K of the span
Accuracy class:	cl. 2.5
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.440 kg

Type	Part No.	Pressure Range	Connection	Packaging
MP1-100	PP554412	0-60 mbar/mmH ² O	G1/2B	1/12
MP1-100	PP554812	0-100 mbar/mmH ² O	G1/2B	1/12
MP1-100	PP556012	0-250 mbar/mmH ² O	G1/2B	1/12
MP1-100	PP556612	0-400 mbar/mmH ² O	G1/2B	1/12
MP1-100	PP557012	0-600 mbar/mmH ² O	G1/2B	1/12

Options : see below

OPTIONAL EXTRAS

MP1-63/80/100

Options subject to minimum quantity

Customized dials, other connections on request

Positive pressures

kPa	MPa	mbar	bar	mmCA	psi	in. Hg
0,25		2,5		25		0,08
0,4		4		40		0,1
0,6		6		60		0,2
1		10		100		0,3
1,6		16		160		0,5
2,5		25		250		0,8
4		40		400		1
6		60		600		2
10		100		1000		3
16		160		1600		5
25		250		2500		8
40		400		4000		12
60		600	0,6	6000	10	20
100	0,1	1000	1	10000	15	
	0,16		1,6		20	
	0,25		2,5		30	
	0,4		4		60	
	0,6		6		100	
	1		10		160	
	1,6		16		200	
	-		-		300	
	2,5		25		400	
	4		40		600	
	-		-		800	
	6		60		1000	
	10		100		1600	
	12,5		125		1800	
	16		160		2000	
	-		-		3000	
	25		250		4000	
	31,5		315		4500	
	-		-		5000	
	40		400		6000	
	-		-		8000	
	60		600		10000	
	100		1000		16000	
	160		1600		20000	
	-		-		30000	
	250		2500		40000	
	300		3000		45000	
	350		3500		50000	
	400		4000		60000	

CAUTION ! The EN 837 standard specifies: "BAR is the preferred unit of pressure".

Combined temperature and pressure gauges



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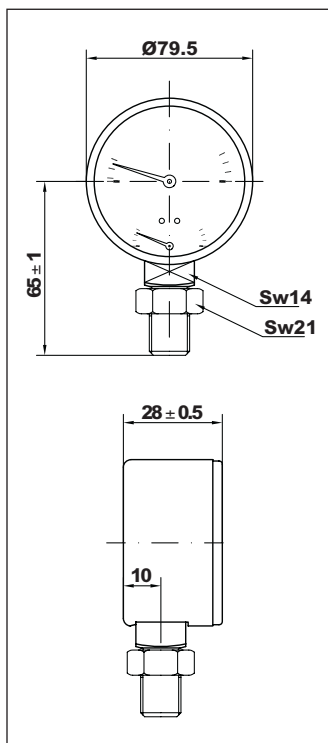
TIRM-ABS 80

EX F+R 828 DN80

Plastic Case DN80 bottom entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	Aluminium white
Pointers:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Temperature element:	Bimetal spiralled
Automatic valve:	Cu-alloy / Polypropylene combination, 21 mm flats



Technical Specifications

Design:	According to EN 837-1 & EN 13190
Working pressure:	Steady: 75 % of full scale value Fluctuating: not applicable Short time: not applicable
Operating temperature:	Ambient: +5 ... +60 °C Medium: +120 °C maximum Storage: -20 ... +60 °C
Temperature effect:	For pressure only: Deviation from reference temperature (+20°C): ± 0,04%/1K of the span
Accuracy class:	cl. 2.5 (Pressure), cl. 2 (Temperature)
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.135 kg

Type	Part No.	Scale Range	Connection	Packaging
TIRM-ABS 80	PL4203BD00	0-2.5 bar / 0-120° C	G1/2B	1/50
TIRM-ABS 80	PL4204BD00	0-4 bar / 0-120° C	G1/2B	1/50
TIRM-ABS 80	PL4206BD00	0- 6 bar / 0-120° C	G1/2B	1/50



TIM-ABS 63

EX F+R 818 DN63

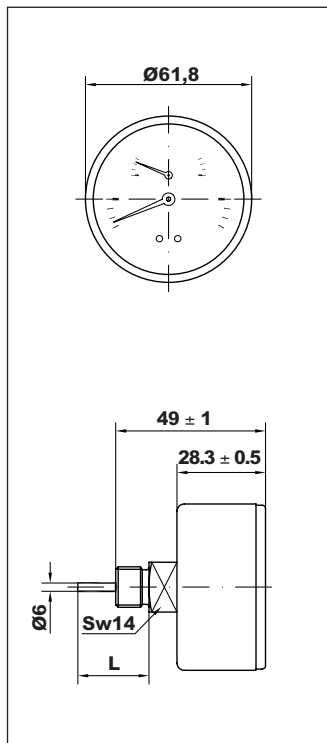
Plastic Case DN63 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	Aluminium white
Pointers:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Temperature element:	Bimetal spiralled
Automatic valve:	Cu-alloy / Polypropylene combination, 21 mm flats

Technical Specifications

Design:	According to EN 837-1 & EN 13190
Working pressure:	Steady: 75 % of full scale value Fluctuating: not applicable Short time: not applicable
Operating temperature:	Ambient: +5 ... +60 °C Medium: +120 °C maximum Storage: -20 ... +60 °C
Temperature effect:	For pressure only: Deviation from reference temperature (+20°C): ± 0,04%/1K of the span
Accuracy class:	cl. 2.5 (Pressure), cl. 2 (Temperature)
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.125 kg



Type	Part No.	Scale Range	Connection	Packaging
TIM-ABS 63		0-2.5 bar / 0-120° C	G1/2B	1/50
TIM-ABS 63	PN3204BD00	0-4 bar / 0-120° C	G1/2B	1/50
TIM-ABS 63		0-6 bar / 0-120° C	G1/2B	1/50



TIM-ABS 80

EX F+R 818 DN80

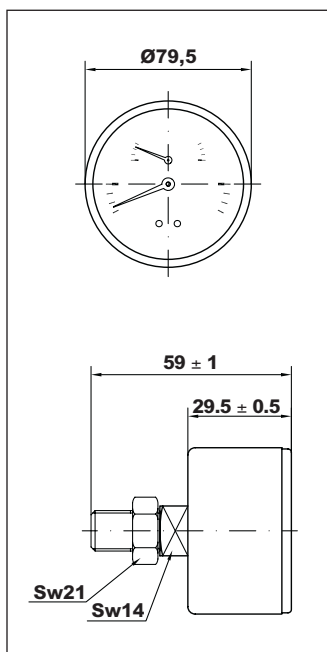
Plastic Case DN80 Centre Back Entry

Materials

Case:	Black plastic
Window:	Clear plastic with adjustable red mark pointer
Dial:	Aluminium white
Pointers:	Black plastic
Pressure connection:	Cu-alloy, 14 mm flats
Pressure element:	Bourdon tube Cu-alloy soft soldered, C-type
Movement:	Cu-alloy
Temperature element:	Bimetal spiralled
Automatic valve:	Cu-alloy / Polypropylene combination, 21 mm flats

Technical Specifications

Design:	According to EN 837-1 & EN 13190
Working pressure:	Steady: 75 % of full scale value Fluctuating: not applicable Short time: not applicable
Operating temperature:	Ambient: +5 ... +60 °C Medium: +120 °C maximum Storage: -20 ... +60 °C
Temperature effect:	For pressure only: Deviation from reference temperature (+20°C): ± 0,04%/1K of the span
Accuracy class:	cl. 2.5 (Pressure), cl. 2 (Temperature)
Degree of protection:	IP 31 per EN 60 529 / IEC 529
Individual Weight:	0.165 kg



Type	Part No.	Scale Range	Connection	Packaging
TIM-ABS 80	PN4203BD01	0-2.5 bar / 0-120° C	G1/2B	1/50
TIM-ABS 80	PN4204BD01	0-4 bar / 0-120° C	G1/2B	1/50
TIM-ABS 80	PN4206BD01	0- 6 bar / 0-120° C	G1/2B	1/50

Options : see below

OPTIONAL EXTRAS

TIRM-ABS 80 TIM-ABS 63/80

Options subject to minimum quantity

Customized dials, other scale ranges on request

Thermometers



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FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TBR-80/VE

EX F+R 802 DN80

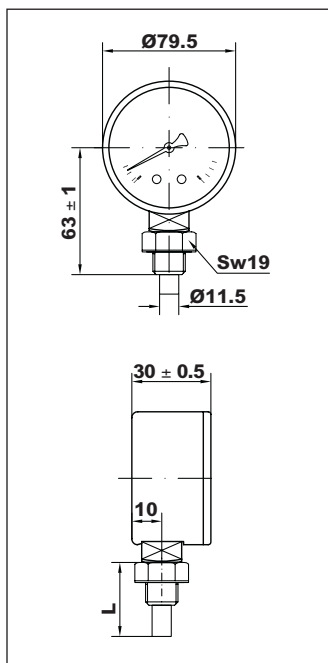
Chrome-Plated Steel Case DN80 Bottom Entry

Materials

Case:	Chrome-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Cu-alloy Ø 9mm with O-Ring for clamping
Temperature element:	Bimetal, spiralled
Movement:	Cu-alloy / Polyester combination
Pocket:	Cu-alloy, 19 mm flats

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 31 per EN 60 529/IEC 529
Individual Weight:	0.202 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TBR-80/VE	PT8A507004	50	0-120 °C	G1/2B	1/50
TBR-80/VE	PT8A987001	75	-30+50 °C	G1/2B	1/50
TBR-80/VE		75	0-60 °C	G1/2B	1/50
TBR-80/VE	PT8B987001	100	-30+50 °C	G1/2B	1/50
TBR-80/VE	PT8B447001	100	0-60 °C	G1/2B	1/50
TBR-80/VE	PT8B507003	100	0-120 °C	G1/2B	1/50

Options : see below

OPTIONAL EXTRAS

TBR-80/VE

Options subject to minimum quantity

Customized dials, other scale ranges on request

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-40/VE

EX F+R 801 DN40

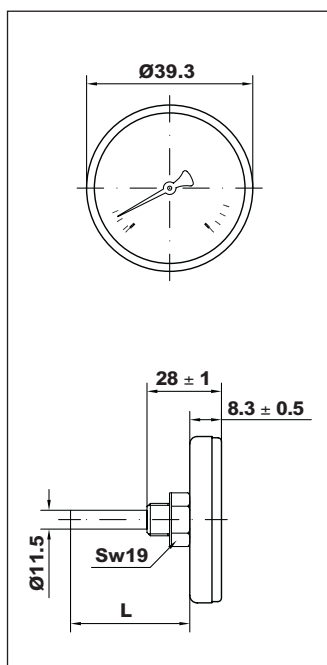
Zinc-Plated Steel Case DN40 Centre Back Entry

Materials

Case:	Zinc-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.059 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-40/VE	PT1A457002	30	0-80 °C	G3/8B	240/240
TB-40/VE	PT1A507001	30	0-120 °C	G3/8B	240/240
TB-40/VE	PT1A447000	50	30+50 °C	G1/2B	240/240
TB-40/VE		50	0-60 °C	G1/2B	240/240
TB-40/VE		50	0-80 °C	G1/2B	240/240
TB-40/VE		50	0-120 °C	G1/2B	240/240

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-63/VE

EX F+R 801 DN63

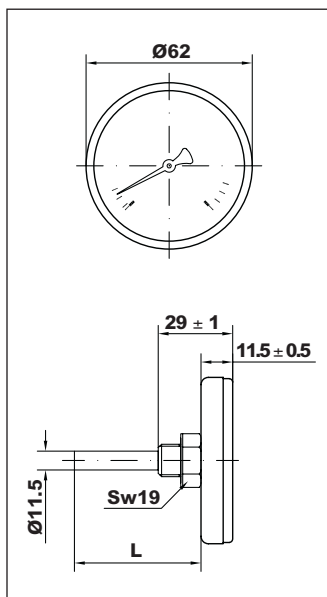
Zinc-Plated Steel Case DN63 Centre Back Entry

Materials

Case:	Zinc-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy up to length 100mm, above cu-alloy-copper, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.112 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-63/VE	PT3A447001	50	-30+50 °C	G1/2B	50/50
TB-63/VE		50	0-60 °C	G1/2B	50/50
TB-63/VE		50	0-80 °C	G1/2B	50/50
TB-63/VE	PT3A507001	50	0-120 °C	G1/2B	50/50
TB-63/VE		100	-30+50 °C	G1/2B	50/50
TB-63/VE		100	0-60 °C	G1/2B	50/50
TB-63/VE		100	0-80 °C	G1/2B	50/50
TB-63/VE		100	0-120 °C	G1/2B	50/50
TB-63/VE		150	-30+50 °C	G1/2B	50/50
TB-63/VE		150	0-60 °C	G1/2B	50/50
TB-63/VE		150	0-80 °C	G1/2B	50/50
TB-63/VE		150	0-120 °C	G1/2B	50/50
TB-63/VE		200	-30+50 °C	G1/2B	50/50
TB-63/VE		200	0-60 °C	G1/2B	50/50
TB-63/VE		200	0-80 °C	G1/2B	50/50
TB-63/VE		200	0-120 °C	G1/2B	50/50
TB-63/VE		300	-30+50 °C	G1/2B	50/50
TB-63/VE		300	0-60 °C	G1/2B	50/50
TB-63/VE		300	0-80 °C	G1/2B	50/50
TB-63/VE		300	0-120 °C	G1/2B	50/50

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-80/VE

EX F+R 801 DN80

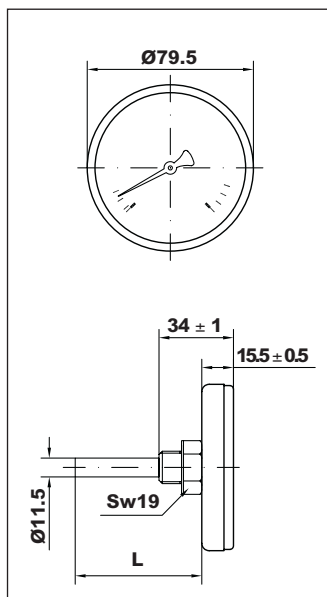
Zinc-Plated Steel Case DN80 Centre Back Entry

Materials

Case:	Zinc-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy up to length 100mm, above cu-alloy-copper, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.130 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-80/VE	PT4A987001	50	-30+50 °C	G1/2B	50/50
TB-80/VE	PT4A447001	50	0-60 °C	G1/2B	50/50
TB-80/VE		50	0-80 °C	G1/2B	50/50
TB-80/VE	PT4A507003	50	0-120 °C	G1/2B	50/50
TB-80/VE	PT4B987001	100	-30+50 °C	G1/2B	50/50
TB-80/VE	PT4B447001	100	0-60 °C	G1/2B	50/50
TB-80/VE		100	0-80 °C	G1/2B	50/50
TB-80/VE	PT4B507004	100	0-120 °C	G1/2B	50/50
TB-80/VE		150	-30+50 °C	G1/2B	50/50
TB-80/VE		150	0-60 °C	G1/2B	50/50
TB-80/VE		150	0-80 °C	G1/2B	50/50
TB-80/VE	PT4C507001	150	0-120 °C	G1/2B	50/50
TB-80/VE		200	-30+50 °C	G1/2B	50/50
TB-80/VE		200	0-60 °C	G1/2B	50/50
TB-80/VE		200	0-80 °C	G1/2B	50/50
TB-80/VE		200	0-120 °C	G1/2B	50/50
TB-80/VE		300	-30+50 °C	G1/2B	50/50
TB-80/VE		300	0-60 °C	G1/2B	50/50
TB-80/VE		300	0-80 °C	G1/2B	50/50
TB-80/VE		300	0-120 °C	G1/2B	50/50

Options : see page 131

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-100/VE

EX F+R 801 DN100

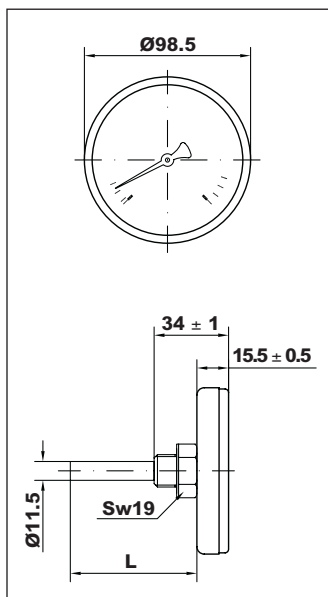
Zinc-Plated Steel Case DN100 Centre Back Entry

Materials

Case:	Zinc-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy up to length 100mm, above cu-alloy-copper, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.175 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-100/VE	PT5A987001	50	-30+50 °C	G1/2B	32/32
TB-100/VE	PT5A447001	50	0-60 °C	G1/2B	32/32
TB-100/VE		50	0-80 °C	G1/2B	32/32
TB-100/VE		50	0-120 °C	G1/2B	32/32
TB-100/VE	PT5B987001	100	-30+50 °C	G1/2B	32/32
TB-100/VE	PT5B447001	100	0-60 °C	G1/2B	32/32
TB-100/VE		100	0-80 °C	G1/2B	32/32
TB-100/VE	PT5B507003	100	0-120 °C	G1/2B	32/32
TB-100/VE		150	-30+50 °C	G1/2B	32/32
TB-100/VE		150	0-60 °C	G1/2B	32/32
TB-100/VE		150	0-80 °C	G1/2B	32/32
TB-100/VE		150	0-120 °C	G1/2B	32/32
TB-100/VE		200	-30+50 °C	G1/2B	32/32
TB-100/VE		200	0-60 °C	G1/2B	32/32
TB-100/VE		200	0-80 °C	G1/2B	32/32
TB-100/VE		200	0-120 °C	G1/2B	32/32
TB-100/VE		300	-30+50 °C	G1/2B	32/32
TB-100/VE		300	0-60 °C	G1/2B	32/32
TB-100/VE		300	0-80 °C	G1/2B	32/32
TB-100/VE		300	0-120 °C	G1/2B	32/32

TB-40-63-80-100/VE

Options subject to minimum quantity

GSS - Stainless steel pocket**See accessories****TB-40-63-80-100/VE**

Options subject to minimum quantity

Customized dials, other scale ranges on request

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-33

EX F+R 801 DN33

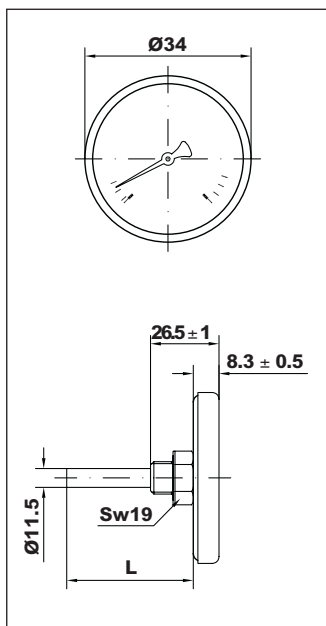
Zinc-Plated Steel Case DN33 With Chrome-Plated Bezel Centre Back Entry

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.046 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-33	PT10447000	30	0-60 °C	G3/8B	240/240
TB-33		30	0-80 °C	G3/8B	240/240
TB-33	PT10507003	30	0-120 °C	G3/8B	240/240
TB-33		50	-30+50 °C	G1/2B	240/240
TB-33		50	0-60 °C	G1/2B	240/240
TB-33		50	0-80 °C	G1/2B	240/240
TB-33	PT10507000	50	0-120 °C	G1/2B	240/240

Options : see page 138

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-40

EX F+R 801 DN40

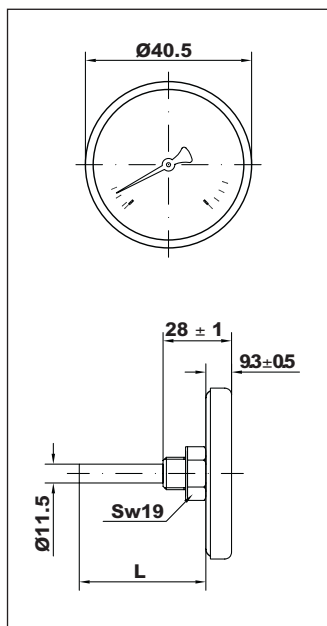
Zinc-Plated Steel Case DN40 With Chrome-Plated Bezel Centre Back Entry

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, 19mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.060 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-40	PT10457801	30	0-80 °C	G3/8B	240/240
TB-40	PT10507001	30	0-120 °C	G3/8B	240/240
TB-40		30	-30+50 °C	G1/2B	240/240
TB-40		50	0-60 °C	G1/2B	240/240
TB-40		50	0-80 °C	G1/2B	240/240
TB-40		50	0-120 °C	G1/2B	240/240

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-52

EX F+R 801 DN52

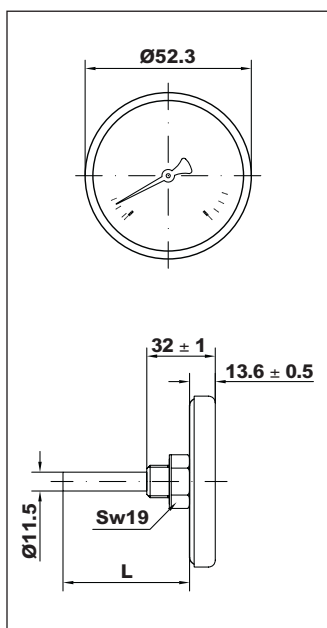
Zinc-Plated Steel Case DN52 With Chrome-Plated Bezel Centre Back Entry

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic, > 120°C instrument glass
Dial:	White aluminium
Pointer:	Black plastic, > 120°C black aluminium
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, 19mm flats with fixing screw

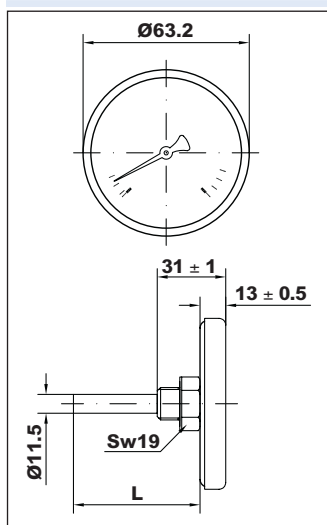
Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.100 kg



Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-52		50	-30+50 °C	G1/2B	100/100
TB-52		50	0-60 °C	G1/2B	100/100
TB-52	PT20457000	50	0-80 °C	G1/2B	100/100
TB-52	PT205070	50	0-120 °C	G1/2B	100/100
TB-52		50	0-200 °C	G1/2B	100/100
TB-52		50	0-250 °C	G1/2B	100/100
TB-52		50	0-350 °C	G1/2B	100/100
TB-52		100	-30+50 °C	G1/2B	100/100
TB-52		100	0-60 °C	G1/2B	100/100
TB-52		100	0-80 °C	G1/2B	100/100
TB-52		100	0-120 °C	G1/2B	100/100
TB-52		100	0-200 °C	G1/2B	100/100
TB-52		100	0-250 °C	G1/2B	100/100
TB-52		100	0-350 °C	G1/2B	100/100
TB-52	PT21687001	100	0-500 °C	G1/2B	100/100

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-63

EX F+R 801 DN63

Zinc-Plated Steel Case DN63 With Chrome-Plated Bezel Centre Back Entry

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic, > 120°C instrument glass
Dial:	White plastic, > 120°C aluminium
Pointer:	Black plastic, > 120°C black aluminium
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, up to length 100 mm, above Cu-alloy-copper 19 mm flats with fixing screw

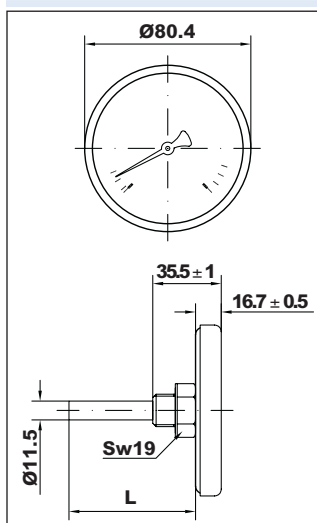
Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.110 kg

Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-63	PT309870	50	-30+50 °C	G1/2B	50/50
TB-63	PT304470	50	0-60 °C	G1/2B	50/50
TB-63		50	0-80 °C	G1/2B	50/50
TB-63	PT30507015	50	0-120 °C	G1/2B	50/50
TB-63	PT30587001	50	0-200 °C	G1/2B	50/50
TB-63		50	0-250 °C	G1/2B	50/50
TB-63	PT306470	50	0-350 °C	G1/2B	50/50
TB-63	PT31987001	100	-30+50 °C	G1/2B	50/50
TB-63	PT31447001	100	0-60 °C	G1/2B	50/50
TB-63		100	0-80 °C	G1/2B	50/50
TB-63	PT31507001	100	0-120 °C	G1/2B	50/50
TB-63	PT31587001	100	0-200 °C	G1/2B	50/50
TB-63		100	0-250 °C	G1/2B	50/50
TB-63	PT316470	100	0-350 °C	G1/2B	50/50
TB-63		100	0-500 °C	G1/2B	50/50
TB-63		150	-30+50 °C	G1/2B	50/50
TB-63		150	0-60 °C	G1/2B	50/50
TB-63		150	0-80 °C	G1/2B	50/50
TB-63		150	0-120 °C	G1/2B	50/50
TB-63		150	0-200 °C	G1/2B	50/50
TB-63	PT32607001	150	0-250 °C	G1/2B	50/50
TB-63		150	0-350 °C	G1/2B	50/50
TB-63		150	0-500 °C	G1/2B	50/50
TB-63		200	-30+50 °C	G1/2B	50/50
TB-63		200	0-60 °C	G1/2B	50/50
TB-63		200	0-80 °C	G1/2B	50/50
TB-63		200	0-120 °C	G1/2B	50/50
TB-63		200	0-200 °C	G1/2B	50/50
TB-63		200	0-250 °C	G1/2B	50/50
TB-63		200	0-350 °C	G1/2B	50/50
TB-63	PT33687000	200	0-500 °C	G1/2B	50/50
TB-63		300	-30+50 °C	G1/2B	50/50
TB-63		300	0-60 °C	G1/2B	50/50
TB-63		300	0-80 °C	G1/2B	50/50
TB-63		300	0-120 °C	G1/2B	50/50
TB-63		300	0-200 °C	G1/2B	50/50
TB-63		300	0-250 °C	G1/2B	50/50
TB-63		300	0-350 °C	G1/2B	50/50
TB-63		300	0-500 °C	G1/2B	50/50

Options : see page 138

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-80

Zinc-Plated Steel Case DN80 With Chrome-Plated Bezel Centre Back Entry

EX F+R 801 DN80

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic, > 120°C instrument glass
Dial:	White plastic, > 120°C aluminium
Pointer:	Black plastic, > 120°C black aluminium
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, up to length 100 mm, above Cu-alloy-copper 19 mm flats with fixing screw

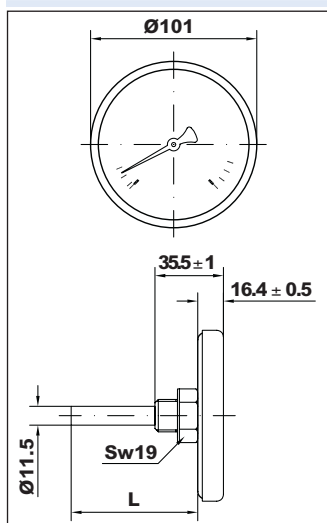
Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.150 kg

Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-80	PT409870	50	-30+50 °C	G1/2B	50/50
TB-80	PT404470	50	0-60 °C	G1/2B	50/50
TB-80		50	0-80 °C	G1/2B	50/50
TB-80	PT40507007	50	0-120 °C	G1/2B	50/50
TB-80	PT406170	50	0-200 °C	G1/2B	50/50
TB-80		50	0-250 °C	G1/2B	50/50
TB-80		50	0-350 °C	G1/2B	50/50
TB-80	PT419870	100	-30+50 °C	G1/2B	50/50
TB-80	PT414470	100	0-60 °C	G1/2B	50/50
TB-80	PT41457001	100	0-80 °C	G1/2B	50/50
TB-80	PT41507002	100	0-120 °C	G1/2B	50/50
TB-80	PT415870	100	0-200 °C	G1/2B	50/50
TB-80	PT41607001	100	0-250 °C	G1/2B	50/50
TB-80	PT41647000	100	0-350 °C	G1/2B	50/50
TB-80	PT41687001	100	0-500 °C	G1/2B	50/50
TB-80	PT479870	150	-30+50 °C	G1/2B	50/50
TB-80		150	0-60 °C	G1/2B	50/50
TB-80	PT424670	150	0-80 °C	G1/2B	50/50
TB-80		150	0-120 °C	G1/2B	50/50
TB-80		150	0-200 °C	G1/2B	50/50
TB-80	PT42607001	150	0-250 °C	G1/2B	50/50
TB-80		150	0-350 °C	G1/2B	50/50
TB-80	PT42687001	150	0-500 °C	G1/2B	50/50
TB-80		200	-30+50 °C	G1/2B	50/50
TB-80		200	0-60 °C	G1/2B	50/50
TB-80		200	0-80 °C	G1/2B	50/50
TB-80		200	0-120 °C	G1/2B	50/50
TB-80	PT43687001	200	0-200 °C	G1/2B	50/50
TB-80		200	0-250 °C	G1/2B	50/50
TB-80	PT43647001	200	0-350 °C	G1/2B	50/50
TB-80		200	0-500 °C	G1/2B	50/50
TB-80		300	-30+50 °C	G1/2B	50/50
TB-80		300	0-60 °C	G1/2B	50/50
TB-80		300	0-80 °C	G1/2B	50/50
TB-80		300	0-120 °C	G1/2B	50/50
TB-80		300	0-200 °C	G1/2B	50/50
TB-80		300	0-250 °C	G1/2B	50/50
TB-80		300	0-350 °C	G1/2B	50/50
TB-80	PT44687000	300	0-500 °C	G1/2B	50/50

Options : see page 138

FOR DOMESTIC AND INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY



TB-100

EX F+R 801 DN100

Zinc-Plated Steel Case DN100 With Chrome-Plated Bezel Centre Back Entry

Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Clear plastic, > 120°C instrument glass
Dial:	White plastic, > 120°C aluminium
Pointer:	Black plastic, > 120°C black aluminium
Stem:	Zinc-plated steel Ø 9mm
Temperature element:	Bimetal, spiralled
Pocket:	Cu-alloy, up to length 100mm, above Cu-alloy-copper 19 mm flats with fixing screw

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.220 kg

Type	Part No.	L (mm)	Scale Range	Connection	Packaging
TB-100	PT509870	50	-30+50 °C	G1/2B	32/32
TB-100	PT504470	50	0-60 °C	G1/2B	32/32
TB-100		50	0-80 °C	G1/2B	32/32
TB-100	PT50507003	50	0-120 °C	G1/2B	32/32
TB-100		50	0-200 °C	G1/2B	32/32
TB-100		50	0-250 °C	G1/2B	32/32
TB-100		50	0-350 °C	G1/2B	32/32
TB-100	PT519870	100	-30+50 °C	G1/2B	32/32
TB-100	PT514470	100	0-60 °C	G1/2B	32/32
TB-100		100	0-80 °C	G1/2B	32/32
TB-100	PT51507003	100	0-120 °C	G1/2B	32/32
TB-100	PT515870	100	0-200 °C	G1/2B	32/32
TB-100		100	0-250 °C	G1/2B	32/32
TB-100	PT516470	100	0-350 °C	G1/2B	32/32
TB-100	PT51687000	100	0-500 °C	G1/2B	32/32
TB-100		150	-30+50 °C	G1/2B	32/32
TB-100	PT52447000	150	0-60 °C	G1/2B	32/32
TB-100		150	0-80 °C	G1/2B	32/32
TB-100		150	0-120 °C	G1/2B	32/32
TB-100	PT52587000	150	0-200 °C	G1/2B	32/32
TB-100	PT52607000	150	0-250 °C	G1/2B	32/32
TB-100	PT526470	150	0-350 °C	G1/2B	32/32
TB-100		150	0-500 °C	G1/2B	32/32
TB-100	PT539870	200	-30+50 °C	G1/2B	32/32
TB-100		200	0-60 °C	G1/2B	32/32
TB-100		200	0-80 °C	G1/2B	32/32
TB-100		200	0-120 °C	G1/2B	32/32
TB-100		200	0-200 °C	G1/2B	32/32
TB-100		200	0-250 °C	G1/2B	32/32
TB-100	PT536470	200	0-350 °C	G1/2B	32/32
TB-100		200	0-500 °C	G1/2B	32/32
TB-100		300	-30+50 °C	G1/2B	32/32
TB-100	PT54447001	300	0-60 °C	G1/2B	32/32
TB-100		300	0-80 °C	G1/2B	32/32
TB-100		300	0-120 °C	G1/2B	32/32
TB-100		300	0-200 °C	G1/2B	32/32
TB-100		300	0-250 °C	G1/2B	32/32
TB-100		300	0-350 °C	G1/2B	32/32
TB-100		300	0-500 °C	G1/2B	32/32

Options : see page 138

OPTIONAL EXTRAS

TB-33-40-52-63-80-100

Options subject to minimum quantity

GSS - Stainless steel pocket**See accessories****TB-33-40-52-63-80-100**

Options subject to minimum quantity

Customized dials, other scale ranges on request



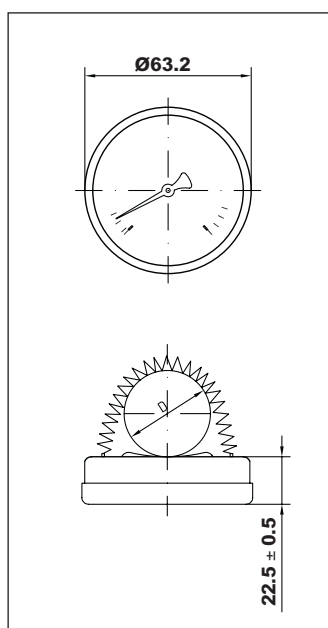
TCM-63

EX F+R 810 DN63

Black Steel Case DN63
With Chrome-Plated Bezel and Fixing Spring

Materials

Case:	Black steel, powder coated
Bezel ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Fixing spring:	Spring steel, for pipe connections from Ø 30 to 65 mm
Temperature element:	Bimetal, spiralled
Temperature connection:	By contact on the rear surface



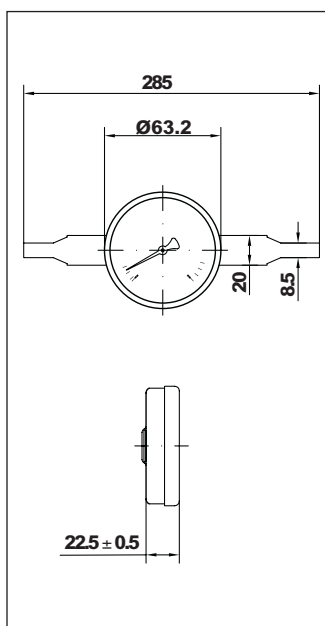
Technical Specifications

Design:	According EN 13190
Temperature limits:	Ambient: -20 ... +60 °C
	Medium: as per scale indication
	Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 31 per EN 60 529/IEC 529
Individual Weight:	0.065 kg

Type	Part No.	Scale Range	Packaging
TCM-63		0-60 °C	100/100
TCM-63	PT055070	0-120 °C	100/100


TCF-63
EX F+R 810 DN63
Black Steel Case DN63 With Chrome-Plated Bezel and Fixing Strip
Materials

Case:	Black steel, powder coated
Bezel ring:	Chrome-plated steel
Window:	Clear plastic
Dial:	White aluminium
Pointer:	Black plastic
Fixing strip:	Copper, for pipe connections from Ø 30 to 76 mm
Temperature element:	Bimetal, spiralled
Temperature connection:	By contact on the rear surface


Technical Specifications

Design:	According EN 13190
Temperature limits:	Ambient: -20 ... +60 °C
	Medium: as per scale indication
	Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 31 per EN 60 529/IEC 529
Individual Weight:	0.065 kg

Type	Part No.	Scale Range	Packaging
TCF-63		0-60 °C	50/50
TCF-63	PT065070	0-120°C	50/50

Options : see below

OPTIONAL EXTRAS

TCM-63
TCF-63

Options subject to minimum quantity

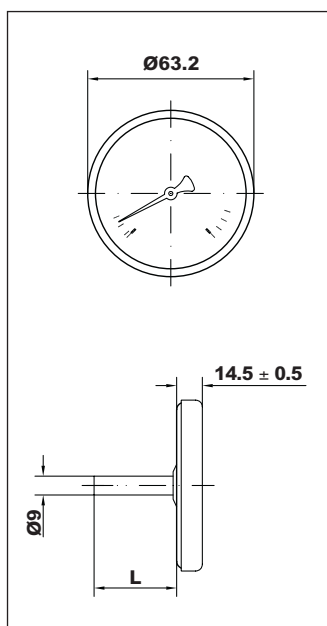
Customized dials on request


TB-63/FUMI
EX F+R 801 DN63
Zinc-plated Steel Case DN63 With Chrome-Plated Bezel Centre Back Entry
Materials

Case:	Zinc-plated steel
Bezel ring:	Chrome-plated steel
Window:	Instrument glass
Dial:	White aluminium
Pointer:	Black aluminium
Stem:	Zinc-plated steel Ø 9mm, without pocket
Temperature element:	Bimetal, spiralled

Technical Specifications

Design:	EN 13190
Temperature limits:	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature:	As per scale indication
Temperature effect:	Not applicable
Accuracy class:	cl. 2
Degree of protection:	IP 41 per EN 60 529/IEC 529
Individual Weight:	0.095 kg



Type	Part No.	L (mm)	Scale Range	Packaging
TB-63/FUMI	PT366870	100	0-500°C	50/50
TB-63/FUMI	PT376870	150	0-500°C	50/50
TB-63/FUMI	PT386870	200	0-500°C	40/40
TB-63/FUMI	PT396870	300	0-500°C	20/20

Options : see below

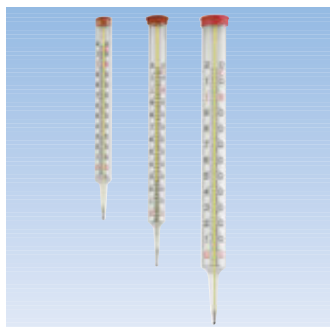
OPTIONAL EXTRAS

TB-63/FUMI

Options subject to minimum quantity

Customized dials on request

FOR APPLICATIONS SUBJECT TO VIBRATIONS IN INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY.



TV

EX F+R 804

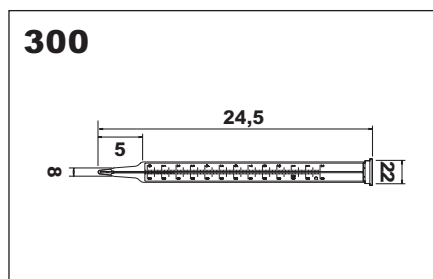
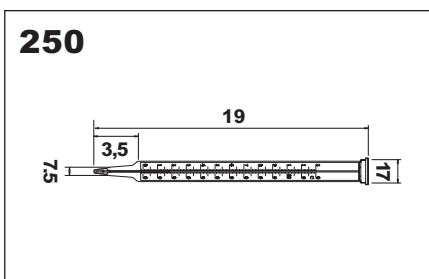
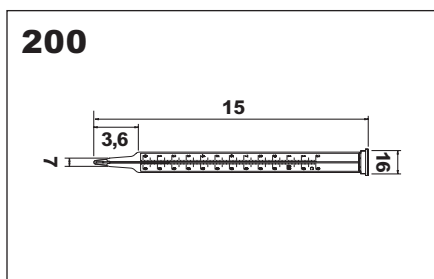
Straight Glass Thermometer

Materials

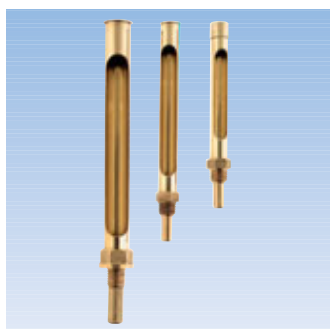
Case:	Glass tube with stem
Dial:	White plastic
Temperature element:	Xylen-filled bulb

Technical Specifications

Temperature limits:	Ambient:	-20 ... +60 °C
	Medium:	as per scale indication
	Storage:	-20 ... +60 °C
Operating temperature:	As per scale indication	
Temperature effect:	Not applicable	
Accuracy class:	cl. 2	
Degree of protection:	IP 41 per EN 60 529/IEC 529	
Individual Weight:	0.020 kg	



Type	Part Number	Length (mm)	Scale range	Packaging
TV	PZ185070	200	-10+120 °C	20/20
TV	PZ205070	250	-10+120 °C	20/20
TV	PZ225070	300	-10+120 °C	20/20



C

EX F+R 998

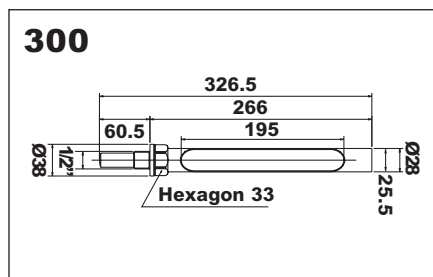
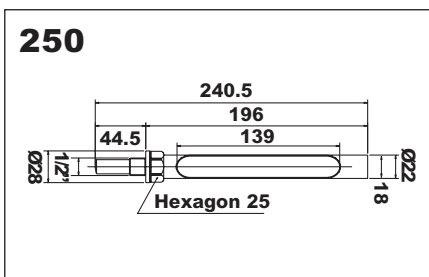
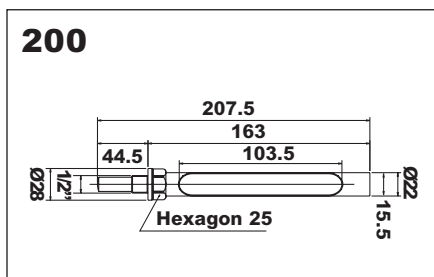
Straight Case with pocket for Glass Thermometer TV

Materials

Case + cap:	Cu-alloy
Pocket:	Cu-alloy, 50 mm
Connection:	Cu-alloy 25 mm flats

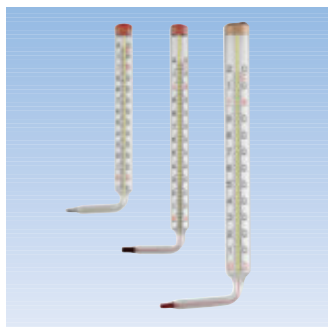
Technical Specifications

Individual Weight:	0.120 kg
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Type	Part Number	Length (mm)	Scale range	Packaging
C	PZ050000	200	-10+120 °C	50/50
C	PZ060000	250	-10+120 °C	50/50
C	PZ070000	300	-10+120 °C	50/50

FOR APPLICATIONS SUBJECT TO VIBRATIONS IN INDUSTRIAL HEATING SYSTEMS. SUITABLE FOR GASEOUS AND LIQUID MEDIA WHICH ARE NOT HIGHLY VISCOUS, DO NOT CRYSTALLIZE AND ARE NOT AGGRESSIVE TO COPPER ALLOY.



TVA

EX F+R 804

Bent Glass Thermometer

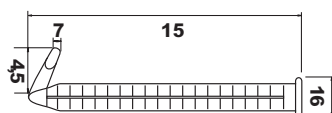
Materials

Case: Glass tube with stem at 90° angle
Dial: White plastic
Temperature element: Xylen-filled bulb

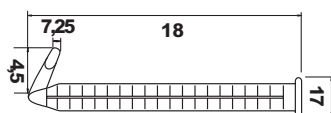
Technical Specifications

Temperature limits: Ambient: -20 ... +60 °C
Medium: as per scale indication
Storage: -20 ... +60 °C
Operating temperature: As per scale indication
Temperature effect: Not applicable
Accuracy class: cl. 2
Degree of protection: IP 41 per EN 60 529/IEC 529
Individual Weight: 0.023 kg

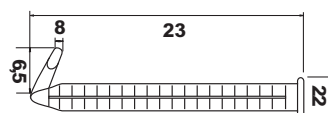
200



250



300



Type	Part Number	Length (mm)	Scale range	Packaging
TVA	PZ265070	200	-10+120 °C	20/20
TVA	PZ275070	250	-10+120 °C	20/20
TVA	PZ285070	300	-10+120 °C	20/20



CA

EX F+R 998

Bent Case with pocket for Glass Thermometer TVA

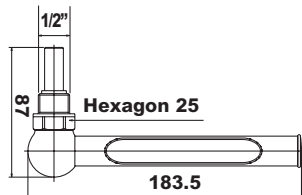
Materials

Case + cap: Cu-alloy
Pocket: Cu-alloy, 50 mm
Connection: Cu-alloy 25 mm flats at 90° angle

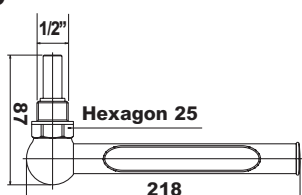
Technical Specifications

Individual Weight: 0.220 kg

200



250



Type	Part Number	Length (mm)	Scale range	Packaging
CA	PZ080000	200	-10+120 °C	10/10
CA	PZ090000	250	-10+120 °C	10/10

NOTES

Accessories



ROBINEX AG
SA

Armaturen Robinetterie Rubinetterie

Bernstrasse 36, CH-4663 Aarburg/Oftingen

Telefon 062 787 70 00, Fax 062 787 70 01

info@robinex.ch, www.robinex.ch

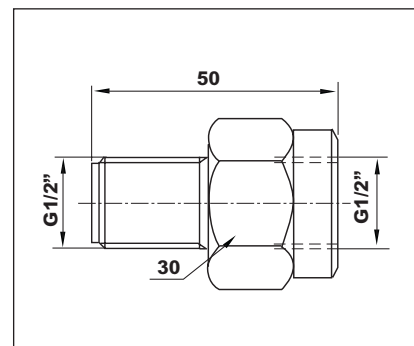
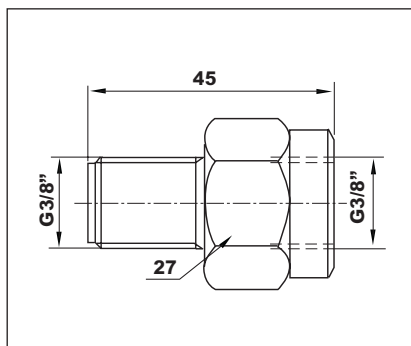
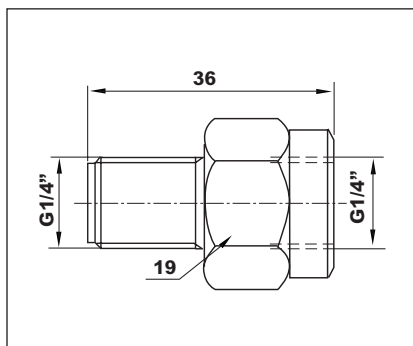


AM

Pressure Dampener

Materials

Body: Cu-alloy
Thread Connection: Cu-alloy, male-female



Type	Part No.	Connection	Weight (kg)	Packaging
AM	PZ010000	G1/4B	0.060	20/20
AM	PZ020000	G3/8B	0.060	20/20
AM	PZ030000	G1/2B	0.060	20/20



RF

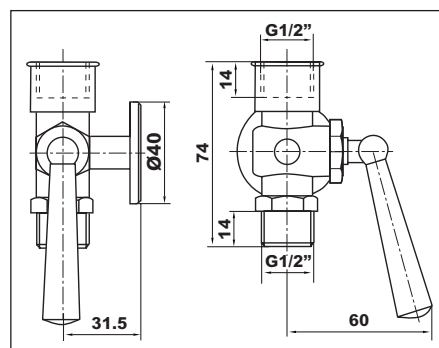
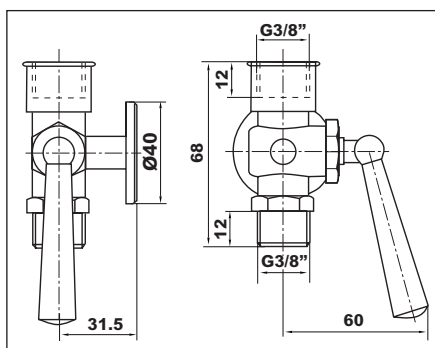
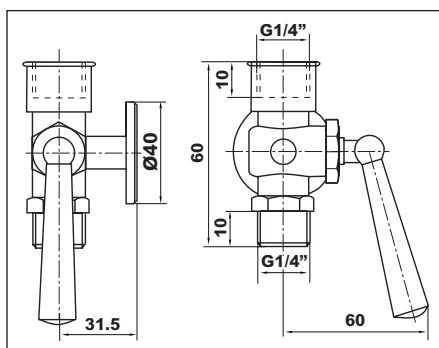
Ball Valve With Test Flange

Materials

Body: Cu-alloy, three-way
Thread Connection: Cu-alloy, male-female
Test flange: Cu-alloy, DN40

Technical Specifications

Temperature limits: Max. 80°C
Working pressure: PN 16 max.

EX F+R 998


Type	Part No.	Connection	Weight (kg)	Packaging
RF	PZ110000	G1/4B	0.200	20/20
RF	PZ120000	G3/8B	0.200	20/20
RF	PZ130000	G1/2B	0.200	20/20


RS
Ball Valve
Materials

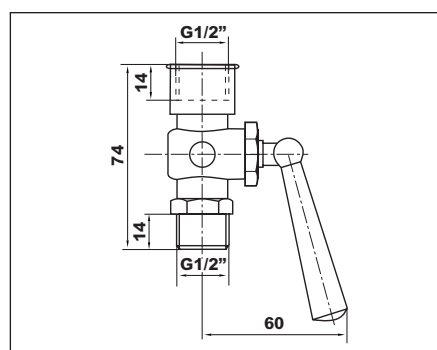
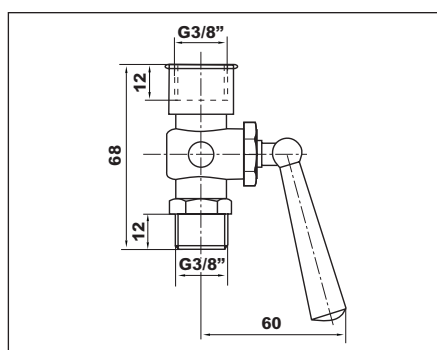
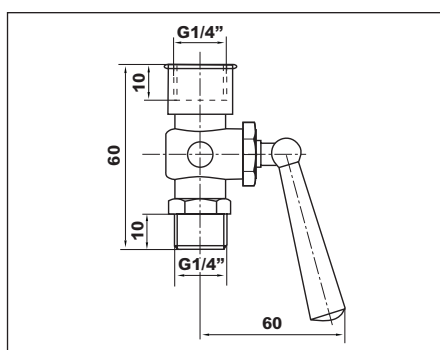
Body: Cu-alloy, two-way
Thread Connection: Cu-alloy, male-female

Technical Specifications

Temperature limits: Max. 80°C
Working pressure: PN 16 max

EX F+R 998

147



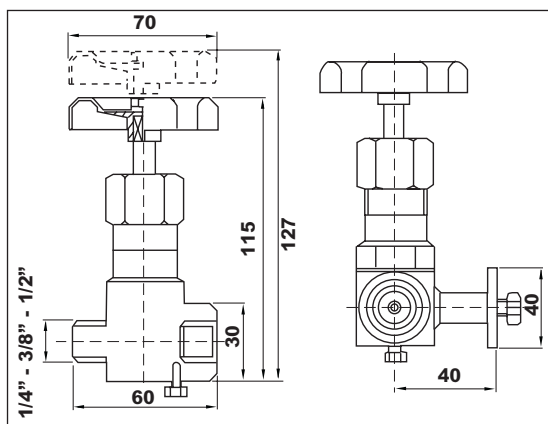
Type	Part No.	Connection	Weight (kg)	Packaging
RS	PZ112000	G1/4B	0.130	20/20
RS	PZ122000	G3/8B	0.130	20/20
RS	PZ132000	G1/2B	0.130	20/20


RFX
Manual Shut Off Valve With Stainless Steel Test Flange
Materials

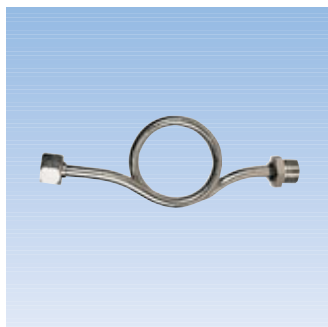
Body: Stainless steel AISI 316, three-way
Thread Connection: Stainless steel, male-female
Test flange: Stainless steel, DN40

Technical Specifications

Temperature limits: Max. 220°C
Working pressure: PN 210 max.

EX F+R 998


Type	Part No.	Connection	Weight (kg)	Packaging
RFX	PZ11010000	G1/4B	1.120	20/20
RFX	PZ12010000	G3/8B	1.120	20/20
RFX	PZ13010000	G1/2B	1.120	20/20



SRN

EX F+R 998

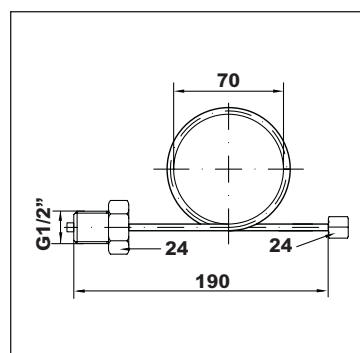
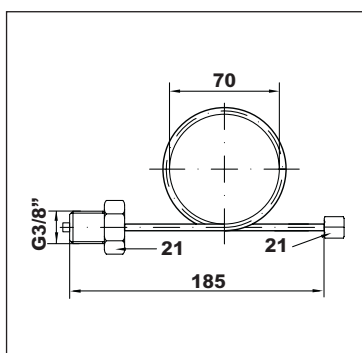
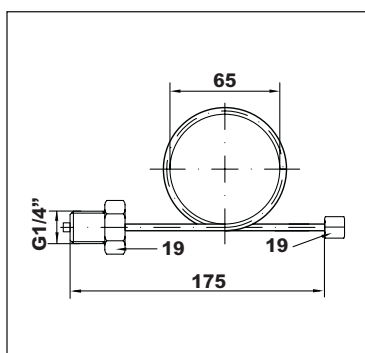
Copper Nickel-plated Syphon (Trumpet form)

Materials

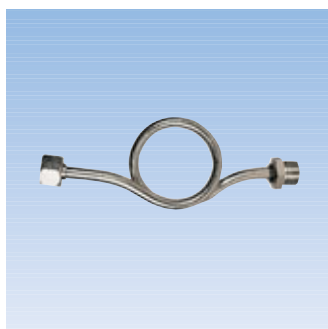
Tube: Copper, nickel-plated
Thread Connection: Copper, nickel-plated, male-female

Technical Specifications

Temperature limits: Max. 120°C
Working pressure: PN 25 max



Type	Part No.	Connection	Weight (kg.)	Packaging
SRN	407D14	G1/4B	0.090	20/20
SRN	407D38	G3/8B	0.090	20/20
SRN	407D12	G1/2B	0.090	20/20



SRX

EX F+R 998

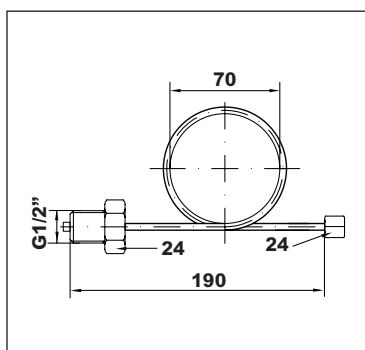
Stainless Steel Syphon (Trumpet form)

Materials

Tube: Stainless steel AISI 316
Thread Connection: Stainless steel AISI 316, male-female

Technical Specifications

Temperature limits: Max. 200°C
Working pressure: PN 100 max.



Type	Part No.	Connection	Weight (kg.)	Packaging
SRX	PZ16100000	G1/2B	0.011	20/20


RP
EX F+R 998
Push Button Valve
Materials

Body:

Cu-alloy, nickel-plated with button for pressure release

Thread Connection:

Cu-alloy, nickel-plated, male-male

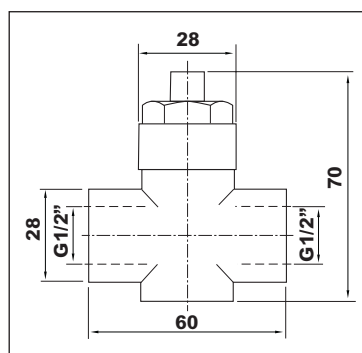
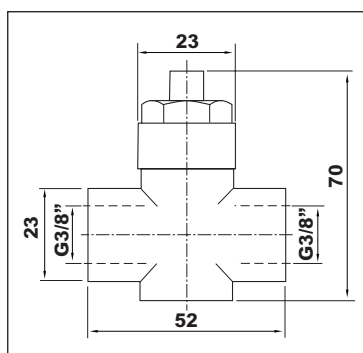
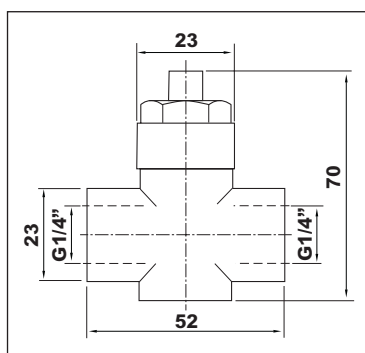
Technical Specifications

Temperature limits:

Max. 80°C

Working pressure:

PN 4 max.



Type	Part No.	Connection	Weight (kg)	Packaging
RP	PZ111000	G1/4B	0.220	20/20
RP	PZ121000	G3/8B	0.220	20/20
RP	PZ131000	G1/2B	0.220	20/20


VR
EX F+R 998
Automatic Valve
Materials

Body:

Cu-alloy

Thread Connection:

Cu-alloy, with O-Ring, male-female

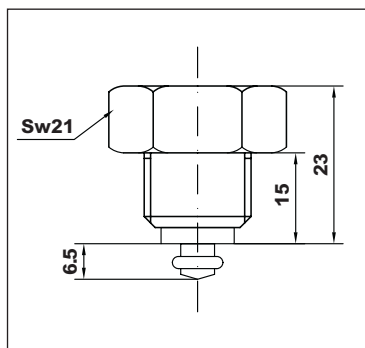
Technical Specifications

Temperature limits:

Max. 120°C

Working pressure:

PN 10 max.



Type	Part No.	Connection	Weight (kg)	Packaging
VR	PZ04000K00	G3/8B x G3/8B	0.100	20/20
VR	PZ04000D00	G1/2B x G1/4B	0.100	20/20


G
Pocket For Thermometers
Materials

Body:

Cu-alloy up to length 100mm, above cu-alloy-copper,
19 mm flats with fixing screw (TBR with O-Ring)

Connection:

Brass

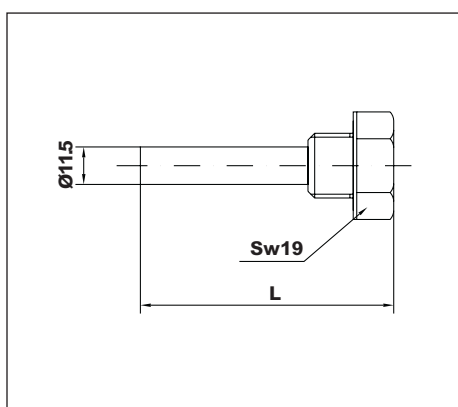
Technical Specifications

Temperature limits:

Max. 500°C

Working pressure:

PN 10 max.



Type	Part No.	L (mm)	Connection	Weight (kg)	Packaging
G-30 for TB	PGUAOTT011	30	G3/8B	0.029	20/20
G-50 for TB	PGUAOTT002	50	G1/2B	0.042	20/20
G-100 for TB	PGUAOTT005	100	G1/2B	0.051	20/20
G-150 for TB	PGUAOTT006	150	G1/2B	0.057	20/20
G-200 for TB	PGUAOTT007	200	G1/2B	0.080	20/20
G-300 for TB	PGUAOTT008	300	G1/2B	0.091	20/20
G-50 push type for TBR	PGUAOTT019	50	G1/2B	0.035	20/20
G-75 push type for TBR	PGUAOTT023	75	G1/2B	0.040	20/20
G-100 push type for TBR	PGUAOTT020	100	G1/2B	0.050	20/20



G-INOX

EX F+R 998

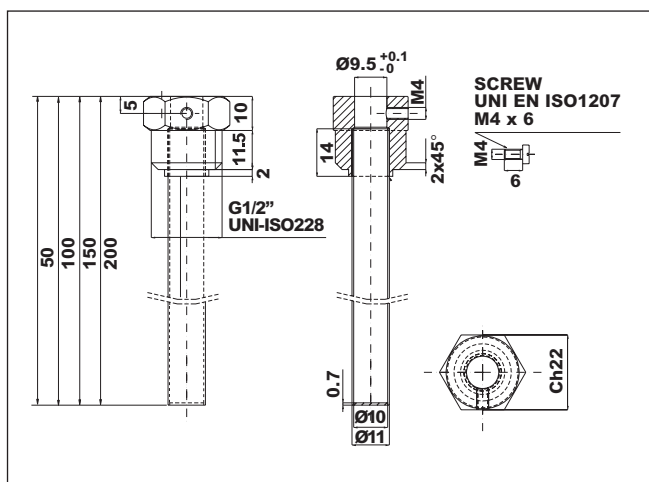
Stainless Steel Pocket For Thermometers

Materials

Body: Stainless steel AISI 304, 10mm hole for stem Ø 9 mm
Connection: Stainless steel AISI 304

Technical Specifications

Temperature limits: Max. 500°C
Working pressure: PN 25 max.

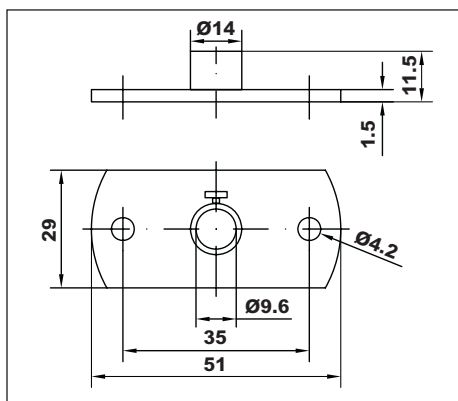


Type	Part No.	Length	Connection	Packaging
G-INOX-50 for TB	PGUAINX006	50	G1/2B	20/20
G-INOX-100 for TB	PGUAINX004	100	G1/2B	20/20
G-INOX-150 for TB	PGUAINX013	150	G1/2B	20/20
G-INOX-200 for TB	PGUAINX011	200	G1/2B	20/20

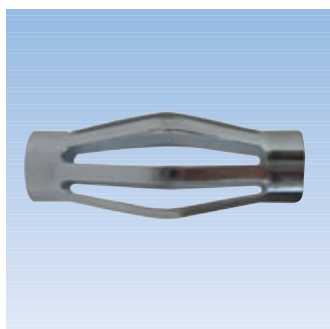

SC
EX F+R 998

**Bracket For Thermometer Stem
(for Ventilation Ducts)**
Materials

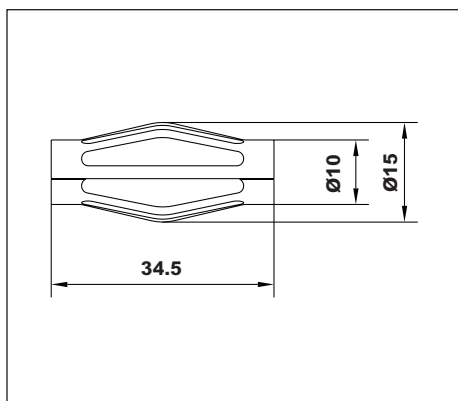
Case and fixing screw: Zinc-plated steel



Type	Part No.	Weight (kg)	Packaging
SC	PMINACC034	0.025	20/20


MC
EX F+R 998

Spring For Thermometer Stem
Materials

Spring: Bluish zinc-plated steel for stem $\geq$ 50 mm


Type	Part No.	Weight (kg)	Packaging
MC	PMINACC037	0.010	20/20



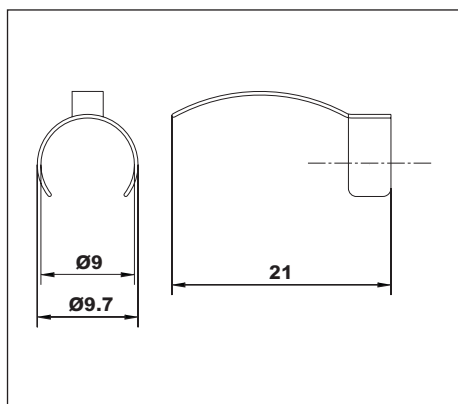
MCL

EX F+R 998

Spring Clips For Thermometer Stem

Materials

Spring: Zinc-plated steel for stem 30 mm



Type	Part No.	Weight (kg)	Packaging
MCL	PMINACC049	0.003	20/20



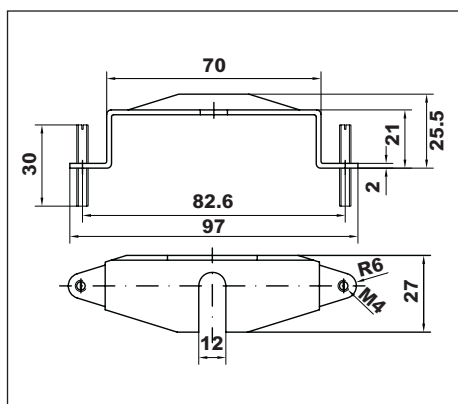
S INOX 63

EX F+R 998

Mounting Bracket For MG3A-INOX 63

Materials

U-clamp and fixing screws: Zinc-plated steel



Type	Part No.	Weight (kg)	Packaging
S INOX 63	PMINACC047	0.040	20/20



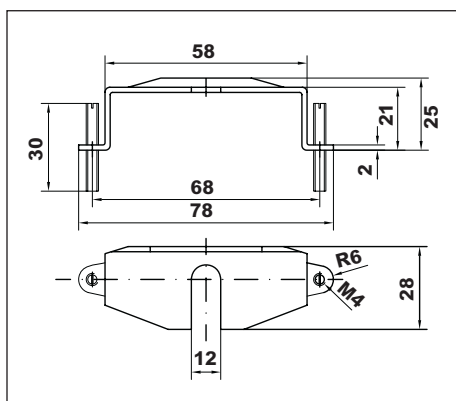
S ABS 50

EX F+R 998

Mounting Bracket For MG3A-ABS 50

Materials

U-clamp and fixing screws: Zinc-plated steel



Type	Part No.	Weight (kg)	Packaging
S ABS 50	PMINACC048	0.040	20/20



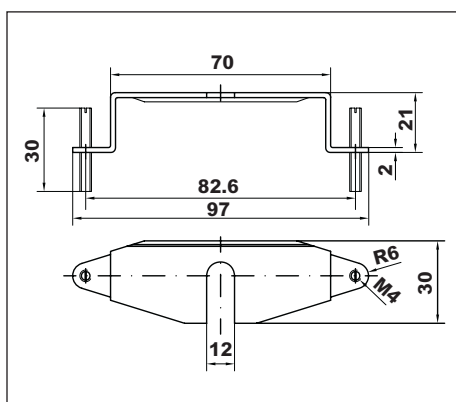
S ABS 63

EX F+R 998

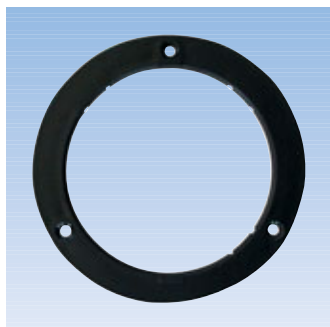
Mounting Bracket For MG3A-ABS 63

Materials

U-clamp and fixing screws: Zinc-plated steel



Type	Part No.	Weight (kg)	Packaging
S ABS 63	PMINACC046	0.040	20/20



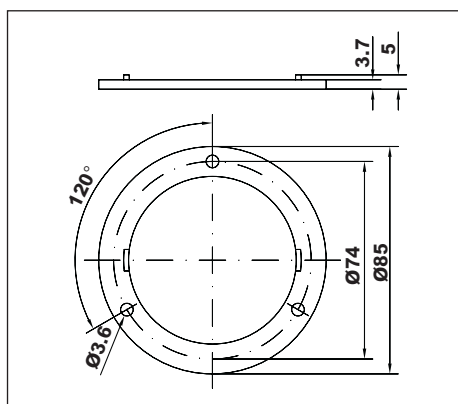
F ABS 63

EX F+R 998

3-Hole Front Flange For MG3A-ABS 63

Materials

Flange: Black plastic



Type	Part No.	Weight (kg)	Packaging
F ABS 63	PMINABS048	0.003	20/20



CP

EX F+R 998

Protective rubber cap for Gauges DN63

Materials

Black rubber

Type	Part No.	Connection	Weight (kg)	Packaging
CP M1-63	PCUSGOM001	Bottom Entry	0.060	20/20
CP M3A-63	PCUSGOM002	Back entry	0.060	20/20



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