M3A-ABS

Bourdon tube pressure gauges

Technical Data Sheet



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WATTS®

Description

Dry plastic case centre back entry. For industry, gases and liquids not viscous, not aggressive and not crystallising.



M3A-ABS 40

DN40 pressure gauges.

Part No	Pressure Range	Connection	Options*	Box/Master	Min.order
PB119917LF	-1/0 bar/inHg	R1/8	D+LF+C	240/240	10
PB110117LF	0-1 bar/psi	R1/8	D+LF+C	240/240	10
	0-1.6 bar/psi	R1/8		240/240	240
PB120317LF	0-2.5 bar/psi	R1/8	D+LF+C	240/240	10
PB120417LF	0-4 bar/psi	R1/8	D+LF+C	240/240	10
PB120617LF	0-6 bar/psi	R1/8	D+LF+C	240/240	10
PB121017LF	0-10 bar/psi	R1/8	D+LF+C	240/240	10
PB121217LF	0-12 bar/psi	R1/8	D+LF+C	240/240	10
PB121617LF	0-16 bar/psi	R1/8	D+LF+C	240/240	240
PB122017LF	0-20 bar/psi	R1/8	D+LF+C	240/240	10
	0-25 bar/psi	R1/8		240/240	240
	0-40 bar/psi	R1/8		240/240	240
PB1344DE00	0-60 bar/psi	R1/8	D+C	240/240	240
PB1348DE00	0-100 bar/psi	R1/8	D+C	240/240	240
PB1354DE00	0-160 bar/psi	R1/8	D+C	240/240	240
	0-250 bar/psi	R1/8		240/240	240
PB1362DE01	0-315 bar/psi	R1/8	D+C	240/240	240
	0-400 bar/psi	R1/8		240/240	240



M3A-ABS 50

DN50 pressure gauges.

Part No	Pressure Range	Connection	Options*	Box/Master	Min.order
PB219917LF	-1/0 bar/inHg	R1/8	D+LF+C	100/100	100
PB210117LF	0-1 bar/psi	R1/8	D+LF+C	100/100	10
PB210217	0-1.6 bar/psi	R1/8	D+C	100/100	100
PB220317LF	0-2.5 bar/psi	R1/8	D+LF+C	100/100	10
PB220417LF	0-4 bar/psi	R1/8	D+LF+C	100/100	10
PB220617LF	0-6 bar/psi	R1/8	D+LF+C	100/100	10
PB221017LF	0-10 bar/psi	R1/8	D+LF+C	100/100	10
PB221217LF	0-12 bar/psi	R1/8	D+LF+C	100/100	10
PB221617LF	0-16 bar/psi	R1/8	D+LF+C	100/100	100
PB222017LF	0-20 bar/psi	R1/8	D+LF+C	100/100	100
	0-25 bar/psi	R1/8		100/100	100
	0-40 bar/psi	R1/8		100/100	100
	0-60 bar/psi	R1/8		100/100	100
	0-100 bar/psi	R1/8		100/100	100
	0-160 bar/psi	R1/8		100/100	100
PB2360DE00	0-250 bar/psi	R1/8	D+C	100/100	100
PB2362DE00	0-315 bar/psi	R1/8	D+C	100/100	100
	0-400 bar/psi	R1/8		100/100	100
PB220318LF	0-2.5 bar/psi	R1/4	D+LF+C	100/100	100
PB220418LF	0-4 bar/psi	R1/4	D+LF+C	100/100	100
PB220618LF	0-6 bar/psi	R1/4	D+LF+C	100/100	10
PB221018LF	0-10 bar/psi	R1/4	D+LF+C	100/100	10
PB221218LF	0-12 bar/psi	R1/4	D+LF+C	100/100	10
PB221618LF	0-16 bar/psi	R1/4	D+LF+C	100/100	100



M3A-ABS 63

DN63 pressure gauges.

Part No	Pressure Range	Connection	Options*	Box/Master	Min.order
PB319918LF	-1/0 bar/inHg	R1/4	D+LF+C	100/100	10
PB310118LF	0-1 bar/psi	R1/4	D+LF+C	100/100	100
PB310218	0-1.6 bar/psi	R1/4	D+C	100/100	100
PB320318LF	0-2.5 bar/psi	R1/4	D+LF+C	100/100	10
PB320418LF	0-4 bar/psi	R1/4	D+LF+C	100/100	10
PB320618LF	0-6 bar/psi	R1/4	D+LF+C	100/100	10
PB321018LF	0-10 bar/psi	R1/4	D+LF+C	100/100	10
PB321218LF	0-12 bar/psi	R1/4	D+LF+C	100/100	10
PB321618LF	0-16 bar/psi	R1/4	D+LF+C	100/100	10
PB322018LF	0-20 bar/psi	R1/4	D+LF+C	100/100	100
PB3225DF00	0-25 bar/psi	R1/4	D+LF+C	100/100	100
PB3240DF00	0-40 bar/psi	R1/4	D+LF+C	100/100	100
	0-60 bar/psi	R1/4		100/100	100
	0-100 bar/psi	R1/4		100/100	100
	0-160 bar/psi	R1/4		100/100	100
	0-250 bar/psi	R1/4		100/100	100
	0-315 bar/psi	R1/4		100/100	100
	0-400 bar/psi	R1/4		100/100	100



M3A-ABS 80

DN80 pressure gauges.

Part No	Pressure Range	Connection	Options*	Box/Master	Min. order
	-1/0 bar	G3/8B		50/50	100
	0-1 bar	G3/8B		50/50	100
	0-1.6 bar	G3/8B		50/50	100
	0-2.5 bar	G3/8B		50/50	100
	0-4 bar	G3/8B		50/50	100
PB4206BC00	0-6 bar	G3/8B	C+LF	50/50	100
	0-10 bar	G3/8B		50/50	100
	0-16 bar	G3/8B		50/50	100
PB4225BC00	0-25 bar	G3/8B	C	50/50	100
	0-40 bar	G3/8B		50/50	100
	0- 60 bar	G3/8B		50/50	100
	0-100 bar	G3/8B		50/50	100
	0-160 bar	G3/8B		50/50	100
	0-250 bar	G3/8B		50/50	100
	0-315 bar	G3/8B		50/50	100
	0-400 bar	G3/8B		50/50	100

***Options included**

D = Dual scale bar/psi (black/red)
C = Accuracy class 1.6
LF = Fimet Watts logo on the dial

Customization per minimum order quantity

Customizations	Model
AT - PTFE sealing ring on parallel threads only 	M3A-ABS 40/50/63/80
T2 - -40°C/+90°C - Aluminium dial + aluminium pointer, (QA+I) Cl. 2,5	M3A-ABS 40/50/63/80
Z - Restrictor hole 0.5 mm	M3A-ABS 40/50/63/80
Z3 - Restrictor hole 0.35 mm	M3A-ABS 40/50/63/80
MS - Silicone movement for dampened pointer travel	M3A-ABS 50/63/80
Customized dials, other scale ranges or connections on request	M3A-ABS 40/50/63/80

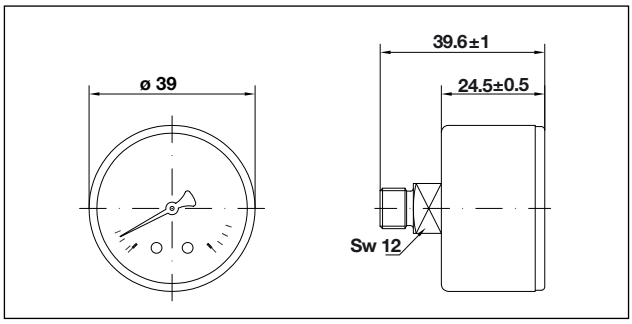
Features

Materials	
Case	Black plastic
Window	Clear plastic
Dial	White plastic
Pointer	Black plastic
Pressure connection	Cu-alloy, 12 mm flats (DN 40) - 14 mm flats (≥ DN 50)
Pressure element	Bourdon tube Cu-alloy, soft soldered ≤ 60 bar C-type,> 60 bar helical type Sn-Ag soldered
Movement	Cu-alloy

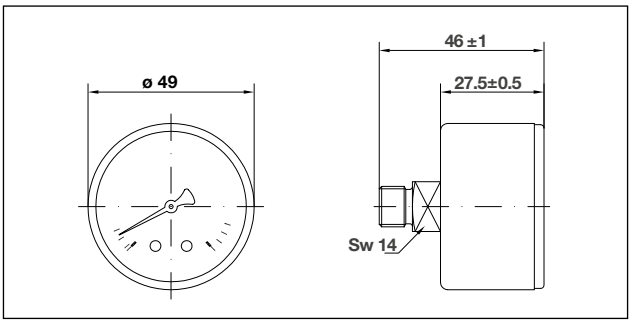
Technical features	
Design	*EN 837-1*
Working pressure	Steady: 75 % of full scale value Fluctuating: 60 % of full scale value Short time: full scale value
Temperature limits	Ambient: -40 ... +60°C Medium: +90°C maximum Storage: -40 ... +60°C
Temperature effect	Deviation from reference temperature (+20°C): ±0,04%/1K of the span
Accuracy class	Cl 1.6
Degree of protection	IP 31 per EN 60 529 / IEC 529
Individual weight: M3A-ABS 40 M3A-ABS 50 M3A-ABS 63 M3A-ABS 80	 0.048 kg 0.089 kg 0.094 kg 0.109 kg

Overall dimensions (mm)

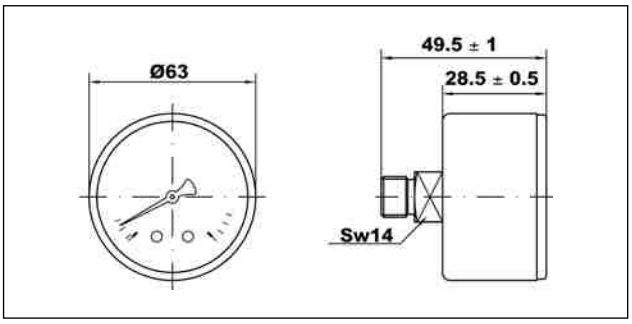
M3A-ABS 40



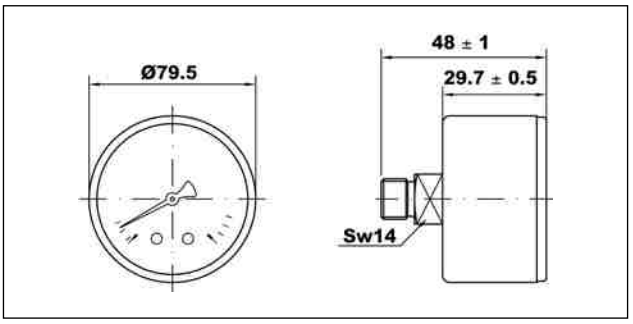
M3A-ABS 50



M3A-ABS 63



M3A-ABS 80



Specification text

Bourdon tube pressure gauges, **M3A-ABS Series**, WATTS brand, for industry, gases and liquids not viscous, not aggressive and not crystallising. **Dry plastic case** DN 40-50-63-80 mm **centre back entry**. Vacuum measures range -1/0 at high pressure up to 400 bar. Temperature limits + 60°C. Accuracy class 1.6.
Compliant with EN 837-1.

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