

COMMERCIAL PRESSURE GAUGES

MODEL M1.06



PRODUCT DESCRIPTION

Commercial gauges are general purpose pressure measuring instruments commonly used in Heating Ventilation Air Conditioning (HVAC) and Refrigeration. Industrial pressure gauge is suitable for production processes that would not block the pressure system. Industrial gauges are used in manufacturing industries, OEM applications, hydraulic, water treatment and RO industries. The movement provides superior resistance to shock, vibration and pulsation, extends product life and reduces maintenance costs.



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KEY FEATURES

- Stainless steel case & measuring system
- Rugged construction
- Dry & liquid filled
- Design according to EN 837-1

SPECIFICATIONS

Accuracy	:	± 1.6% of Span (Standard)
Process Conn. Location	:	Direct Bottom & back
Process Conn. Size & Type	:	1/4" BSP (M), 1/4" NPT (M), (Other sizes on request)
Ingress Protection	:	IP68
Dial Size	:	50mm (2"), 63mm (2½")

TEMPERATURE LIMITS

Version	Ambient	Process
Dry	-40 to 65 °C	-40 to 200 °C
Glycerin filled	-20 to 65 °C	-20 to 100 °C
Silicone filled	-40 to 65 °C	-40 to 100 °C

CASE FILLING (OPTIONAL)

The gauges can be filled with different kind of fill fluids.
Available fill fluids are:

- Glycerin fluid (99.7%)
- Silicon fluid
- Other fill fluids can be offered on request

CERTIFICATION & APPROVALS

Calibration Certificate	:	Gauges are factory calibrated to full range by default 5 Point Calibration Cert. (Optional)
Material Certification	:	Available as per EN10204 3.1 for wetted parts (Optional) Available as per EN10204 2.1 for non-wetted parts (Optional)
NACE Compliance	:	Available as per MR 01 75/ MR 01 03 (ISO 15156) for wetted parts (Optional)
Approvals	:	ATEX: Conformity acc. to RL 2014/34/EU II 2 GD Ex h T6 (Optional)

APPLICATION

- Food & Beverages
- Engine compressors
- Diesel Engines
- Nuclear power plants
- Pharmaceutical
- Turbines
- Pumps
- Chemicals
- Presses
- Petrochemical industries
- Hydro cleaning machine
- Refrigerating plants & gaseous / liquid media.

PRESSURE LIMITS

Steady Pressure	:	Up to FSV
Fluctuating Pressure	:	0.9 x FSV
Over Range Pressure	:	≤ 100 bar: 1.3 x FSV
(Short Term)	:	≥ 100 bar: 1.15 x FSV

MATERIAL OF CONSTRUCTION

Case & Bezel Ring	:	SS 304
Bourdon	:	SS 316L
Movement	:	SS 304
Pointer	:	Aluminum, Black colored Zero adjustable or Fixed Pointer
Dial	:	Aluminum, Black graduation on white background
Window	:	Plexi glass
Window gasket & Blowout disk	:	Neoprene

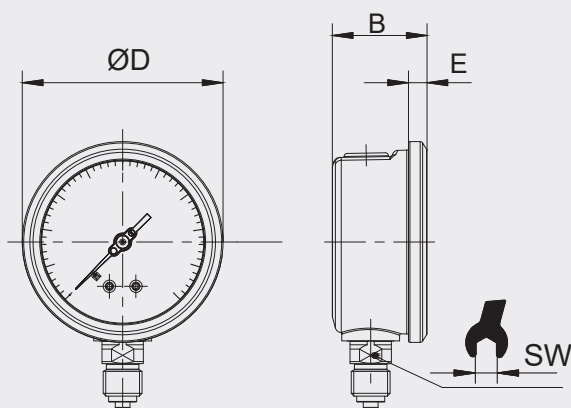


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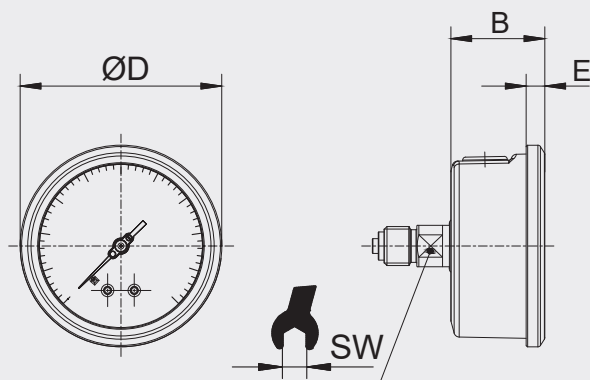
DIMENSIONAL DRAWINGS

Direct, Bottom Connection - B



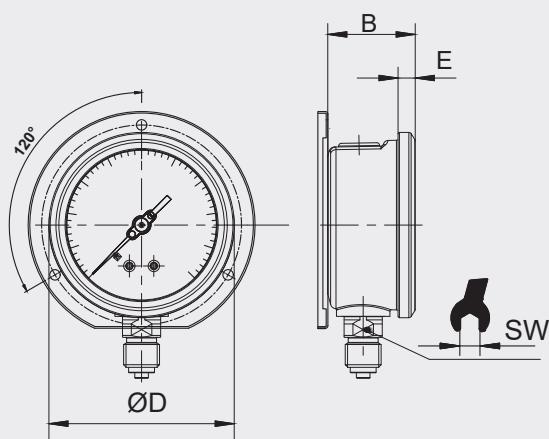
NS	Dimension in mm			
	B ±0.5	E	ø D1	SW
50	30	6	55	14
63	32	6.5	68	14

Direct, Center Back Connection - C



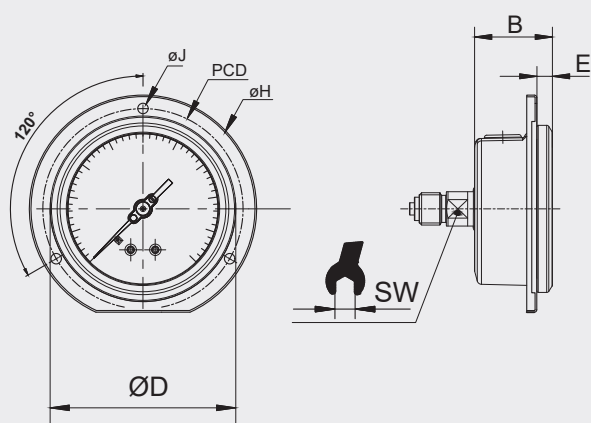
NS	Dimension in mm			
	B ±0.5	ø D	E	SW
50	30	55	6	14
63	32	68	6.5	14

Back Flange, Bottom Connection - BS



NS	Dimension in mm					
	B ±0.5	E	ø D1	ø H	PCD	ø J
50	30	6	55	86	75	3.6
63	32	6.5	68	86	75	3.6

Front Flange, Center Back Connection - LP



NS	Dimension in mm					
	B ±0.5	E	ø D1	ø H	PCD	ø J
50	30	6	55	86	75	3.6
63	32	6.5	68	86	75	3.6

Important Notes: Above drawings are not to scale. All Dimension are in mm. NS = Nominal size. Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

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TABLE-1 PRESSURE RANGE

bar		kg/cm ²		psi		kPa		MPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
CB015	-1...0.6	CG015	-1...0.6	HP37	-30HG/15psi	CK015	-100...60	CM015	-0.1...0.06
CB024	-1...1.5	CG024	-1...1.5	HP39	-30HG/30psi	CK024	-100...150	CM024	-0.1...0.15
CB004	-1...3	CG004	-1...3	HP41	-30HG/60psi	CK004	-100...300	CM004	-0.1...0.3
CB006	-1...5	CG006	-1...5	HP44	-30HG/100psi	CK006	-100...500	CM006	-0.1...0.5
CB010	-1...9	CG010	-1...9	HP46	-30HG/150psi	CK010	-100...900	CM010	-0.1...0.9
CB016	-1...15	CG016	-1...15	HP50	-30HG/220psi	CK016	-100...1500	CM016	-0.1...1.5
CB025	-1...24	CG025	-1...24	HP53	-30HG/300psi	CK025	-100...2400	CM025	-0.1...2.4
CB001	-1...0	CG001	-1...0	PS010	0...10	CK001	-100...0	CM001	-0.1...0
BR01	0...1	KG01	0...1	PS060	0...60	KP01	0...100	MP01	0...0.1
BR015	0...1.6	KG015	0...1.6	PS100	0...100	KP015	0...160	MP015	0...0.16
BR024	0...2.5	KG024	0...2.5	PS160	0...160	KP024	0...250	MP024	0...0.25
BR004	0...4	KG004	0...4	PS200	0...200	KP004	0...400	MP004	0...0.4
BR006	0...6	KG006	0...6	PS300	0...300	KP006	0...600	MP006	0...0.6
BR010	0...10	KG010	0...10	PS400	0...400	KP010	0...1000	MP010	0...1
BR016	0...16	KG016	0...16	PS500	0...500	KP016	0...1600	MP016	0...1,6
BR025	0...25	KG025	0...25	PS600	0...600	KP025	0...2500	MP025	0...2,5
BR040	0...40	KG040	0...40	PS800	0...800	KP040	0...4000	MP040	0...4
BR060	0...60	KG060	0...60	PS110	0...1000	KP060	0...6000	MP060	0...6
BR100	0...100	KG100	0...100	PS150	0...1500	KP100	0...10000	MP100	0...10
BR160	0...160	KG160	0...160	PS120	0...2000	KP160	0...16000	MP160	0...16
BR250	0...250	KG250	0...250	PS130	0...3000	KP250	0...25000	MP250	0...25
BR400	0...400	KG400	0...400	PS140	0...4000	KP400	0...40000	MP400	0...40
BR600	0...600	KG600	0...600	PS150	0...5000	KP600	0...60000	MP600	0...60

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MODEL M1.06

MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	M1.06	02	2	B	M14M	BR040	X20
Model								
COMMERCIAL PRESSURE GAUGE	M1.06	M1.06						
Dial Size								
50 mm (2")	02		02					
63 mm (2.5")	25							
Version								
Dry (But Fillable)	1							
Glycerin Filled	2			2				
Silicon Oil Filled	3							
Type of Mounting / Connection Orientation								
Direct Bottom Connection	B				B			
Direct Centerback Connection	C							
Back Flange Direct Bottom Connection Surface Mounting	BS							
Front Flange Direct Connection Flush Panel Mounting	LP							
Process Connection (Size and Type)								
1/4" BSP (M)	14BM							
1/4" NPT (M)	14NM							
1/8" BSP (M)	18BM							
1/8" NPT (M)	18NM							
M14X1(M)	M14M					M14M		
Range								
To be selected from Table 1	XXXXX						BR040	
(Other Custom Ranges available on request)								
Other Options								
Window in Toughened Glass	EXO							
Tag no Marking on Dial	XTM							
Over Range Protection 150% FSD	X10							
Wetted Parts Complied To NACE	X20							X20
Custom Dial Design / Private Labeling	X29							
Accuracy Requirement -1.2%	XX5							
Quality Specific Requirement								
ATEX Conformity acc.to RL 2014/34/EU II 2 GD Ex h T6	XAT							
IBR Certification	X18							
Certificate for Oxygen Service	X21							
IGC Certificate	X79							
Leak Test Certificates	XLC							
DP Test for Socket and Case Welding	XDP							
Default Certification								
Callibration Certificates								
MTC for Wetted Parts								

DEFAULT SELECTION		
MOC SELECTION	DEFAULT	ON REQUEST
CASE AND RING	SS316	S6
BOURDON	SS316L	SL
SOCKET	SS316L	SL
MOVEMENT	SS316	S6

SAMPLE ORDERING CODE:

M1.06-02-B-M14M-BR040-X20-S6-SL-SL-S6

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.