glycerine filled industrial manometer series MA055

Applications and features

- Good pointer readability also in the event of mechanical vibrations at the measuring point
- Increased life cycle with pulsating pressure fluctuations (measuring device, measuring elements)
- Bayonet housing allows correcting adjustments after calibrations
- Suitable for gaseous, low-viscosity and non-crystallising measuring media that do not corrode brass
- High measurement accuracy: class 1.0; i.e. +/- 1% of the span
- Corrosion resistant stainless steel housing, suitable for aggressive ambient conditions
- Standard reading ranges acc. to EN 837-1 between -1 bar and 1000 bar

Nominal size	Accuracy	Connection	Low radial	Centre back mount	Up radial	Lower back mount	Housing
NS 100	Cl 1.0	G 1/2B	●			●	CrNi steel, 1.4301
NS 160	Cl 1.0	G 1/2B	●			●	CrNi steel, 1.4301
NS 250	Cl 1.0	G 1/2B	●			●	CrNi steel, 1.4301

Technical features	
Type standard	in conformity with EN 837-1
Sensing element	Bourdon tube element (circular up to 40bar, helical starting from 60bar)
Scale ranges (negative overpressure)	-1 bar ... 0 bar
Scale ranges (positive overpressure)	0 bar ... 1000 bar
Scale ranges (neg./pos. overpressure)	-1 bar ...+15 bar
Scale on dial	linear, 270 angle degrees
End stop on dial	without end stop pin
Fluctating pressure limit	0.9-fold span
Steady pressure limit	1.0-fold span
Short time pressure limit	1.3-fold span
Temperature effect on accuracy (+/- of T ref.)	max. +/-0.4% of span per +/-10 K of refernce temp.
Measuring medium temperature	max. +60°C
Ambient temperature	-20°C to +60°C
Storage temperature	-20°C to +60°C
Gaseous measuring media	applicable
Fluid measuring media	applicable

Technical features	
Viscous measuring media	not applicable
Crystallising measuring media	not applicable
Aggressive measuring media	not applicable
Housing type	Housing with bayonet catch
Ingress protection of the housing	IP65 acc. to EN 60528 / IEC 529
Type of mounting	stand-alone process connection
Sensing element material	brass
Connection material	brass
Window	scratch resistant instrument glass
Material of instrument dial	Aluminium pure white coated, black imprint
motion work	brass
Pointer	Aluminium, anodized
Red mark pointer	see options
Damping fluid	Glycerine 99.7% up to 60°C
Sealing materials	Housing: NBR (Perbunan), silicone free
Protection and safety design	see options
ATEX suitability	acc. to ATEX manufacturer declaration

Abbildungen unverbindlich, Konstruktions-, Maß- und Werkstoffänderungen vorbehalten
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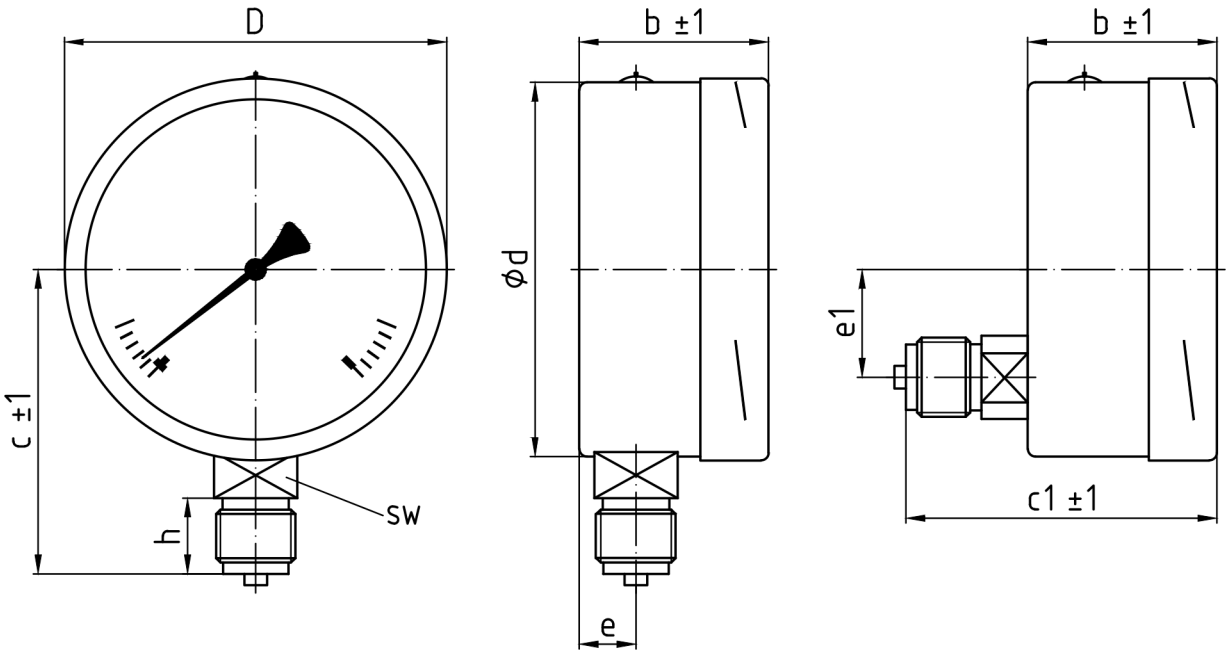
Technical features	
Important notes	Before start-up, open filler plug for internal pressure compensation



!!! EN !!! Maße in mm Gewicht in kg

NG	D	d	b	c	c1	e	e1	h	SW
NG 100	101	99	50	82	82	15	28,5	20	22
NG 160	161	159	50	118	82	16	28,5	20	22
NG 250	251	249	57	165	88	16	51,0	20	22

Options	
Max. drag pointer, resettable	from 1 pcs
Min. drag pointer, resettable	from 1 pcs
Min. and max. drag pointer, resettable	from 1 pcs
Red marking on instrument dial	from 1 pcs
Red mark pointer, adjustable from the outside	from 1 pcs
Special scale for standard reading/measuring range	from 1 pcs
Special reading/measuring range	from 1 pcs
Text inscription in black block letters	from 1 pcs
Monochrome logo and text inscription	from 1 pcs
Polychrome graphic, logo and text inscription	from 1 pcs
Throttle screw 0.3mm	from 1 pcs
Throttle screw 0.6mm	from 1 pcs
Special threads, e.g. NPT, M12x1.5	from 1 pcs
Laminated safety glass acc. to S1 (EN 837-1)	from 1 pcs

Options	
Pressure relief opening acc. to S2 (EN 837-1)	from 1 pcs
Impact protection cap	from 1 pcs
Oil and grease free design incl. certificate	from 1 pcs
Oxygen design, incl. certificate	from 1 pcs
Silicone free design, incl. Factory Confirmation	from 1 pcs
Acid gas design, incl. certificate	from 1 pcs
Material test report 2.2 (EN 10204)	from 1 pcs
Material inspection certificate 3.1 (EN 10204)	from 1 pcs
Factory calibration with inspection certificate 3.1 (EN 10204)	from 1 pcs
Internationally recognised calibration (ÖKD)	from 1 pcs
Preparation for official verification	from 1 pcs
Verification: stamping mark	from 1 pcs
Verification: stamping mark and verification certificate	from 1 pcs

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