



FEATURES

- These gauges are designed to withstand the severest of operating conditions of the ambient environment and the process medium.

APPLICATIONS

- Chemical
- Petro-chemical
- Oil & gas
- Power and utilities
- Machine building
- General process industries

STANDARD PARAMETERS

Dial size	Ranges	Accuracy
100mm / 1 contact	0...1.6 to 0...1600 bar	1.0%
100mm / 1 contact	0...1 to 0...1600 bar	1.6%
100mm / 2 contacts	0...2.5 to 0...1600 bar	1.0%
100mm / 2 contacts	0...1.6 to 0...1600 bar	1.6%
Ambient temperature	Dry: -40°C ...+60°C	Filled: -20°C ...+60°C
Medium temperature	Dry: -40°C...+200°C	Filled: -20°C...+90°C
Pressure limits	Steady pressure up to FS value	Fluctuating pressure up to 90% of FS value
Standard	EN837-1; DIN 16085	Short time 1.3 x FS value

MATERIAL OF CONSTRUCTION

Case & Bezel	AISI 304 / AISI 316
Connection*	AISI 316 / Alloy 400
Sensing element*	AISI 316 / Alloy 400
Movement	Stainless steel
Pointer & Dial	Aluminium
Window gasket & Blow out	NBR
Fill plug	NBR (HNBR for filled gauges)
Mounting flanges	AISI 304 / AISI 316
Window	Acrylic
Cable terminal box	Polyamid 6

*wetted materials

STANDARD SPECIFICATIONS

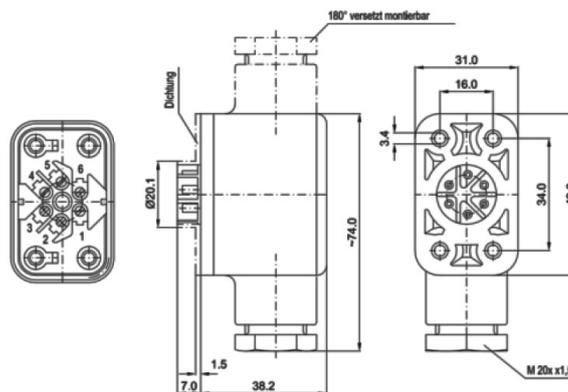
Dial size	100mm
Range	-1...0...1600
Mounting pattern	Direct, Bottom connection
Process connection	1/2" NPT (M) / 1/2" BSP (M)
Ingress protection	IP65
Execution	Dry / Silicon oil

TEMPERATURE EFFECT

When temperature of the measuring system deviates from reference temperature (+20°C) max error $\pm 0.4\%$ / 10K of true scale value. (According to EN837)

CABLE TERMINAL BOX

For type A & C the cable terminal box is fitted on the circumference of the case, Type D & E have the terminal box on the back of the case. This terminal box houses the terminals for the external wiring. The connector can be removed by unloosen the Philips screw. The male and female connector are sealed by an NBR gasket. Standard this is an IP65 Universal Cable Box type B suitable for electrical cables 7...13mm in diameter.



CONTACTS

The PG30 is supplied with a contact. The contacts can be low action, magnetic, inductive, or electric. It can be supplied with single or double contacts.

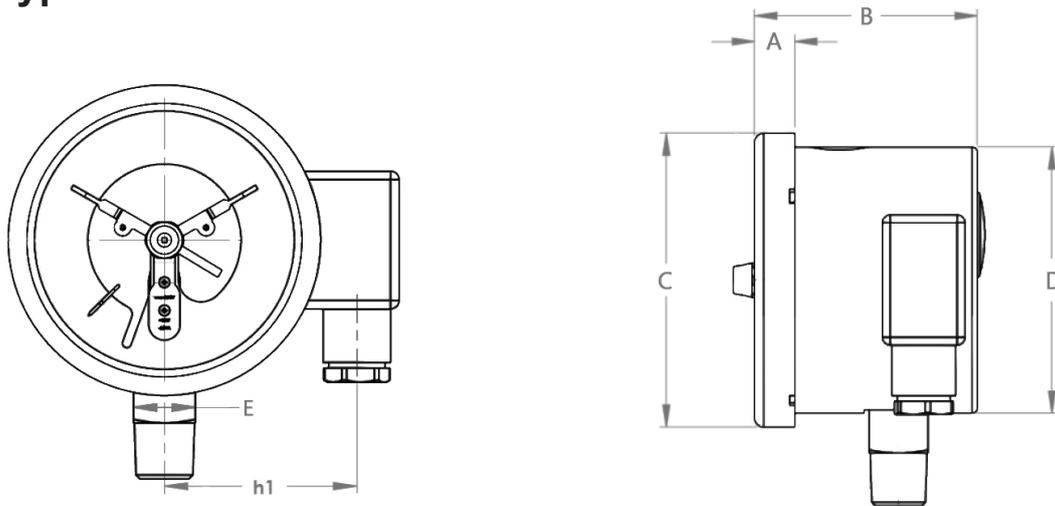
USABLE RANGE

For all contacts except magnetic contacts the usable range is 10%...90% of the scale. For magnetic contacts 15%...85% of the scale. When using a double contact, the recommended minimum distance between the two setpoints is 15% to 30% of the scale.

RESTRICTOR SCREW

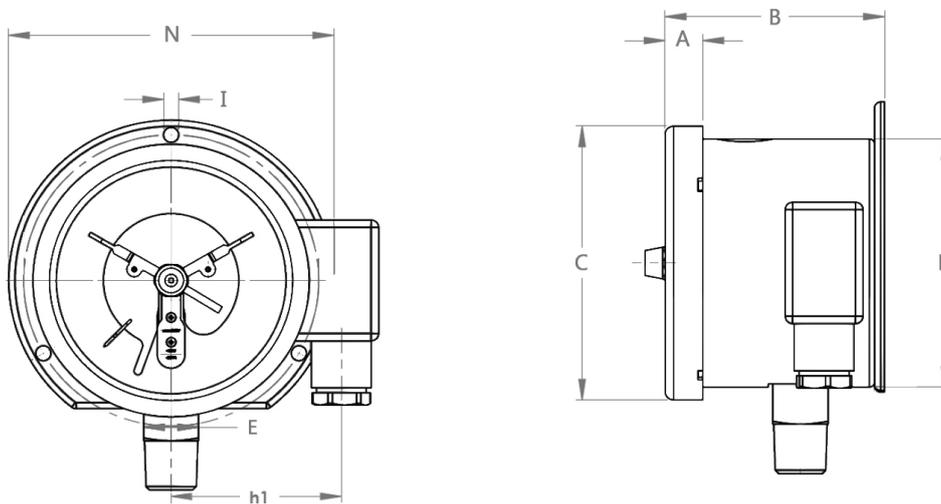
All gauges can be executed with a restrictor of 0.8 or 0.3 orifice in AISI 316. For the Alloy 400 internal the orifice is 0.8mm.

Type A



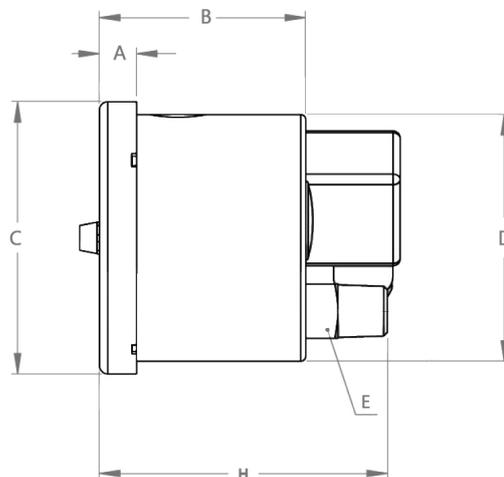
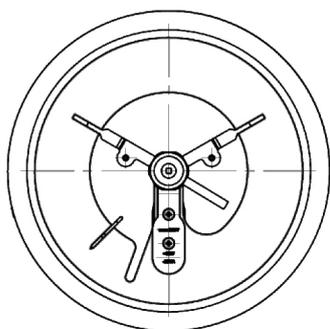
DN	A	B	C	D	E	h1
100	15	83	110	100	sq22	77

Type C



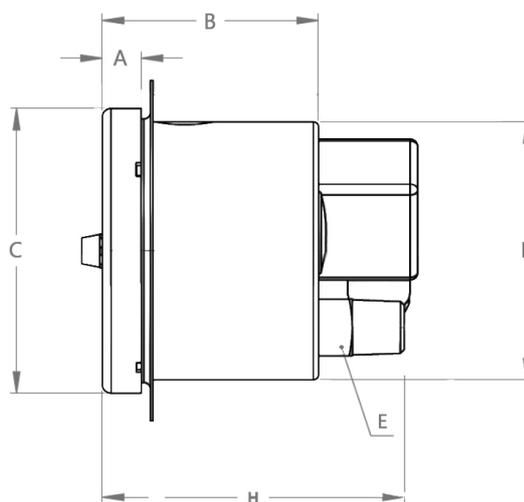
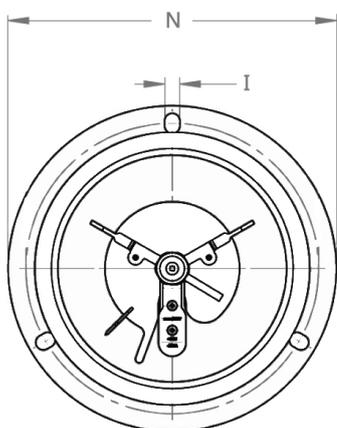
DN	A	B	C	D	E	h1	N	I
100	15	83	110	100	sq22	77	130	7

Type D



DN	A	B	C	D	E	H
100	15	83	110	100	sq22	116

Type E



DN	A	B	C	D	E	H	N	I
100	15	83	110	100	sq22	116	132	7

ORDERING CODES

1. DIAL SIZE		05	10. CONTACT OPTION CODE		AS1
05	100 mm / 4"		Snap-action		
2. RANGE		XXX	AS1	S1 (make contact)	
XXX	Refer "Range Table"		AS2	S2 (break contact)	
3. ACCURACY		CL5	AS3	S3 (change-over contact SPDT)	
CL5	1.0		AS11	S11 (make - make contact)	
CL6	1.6		AS12	S12 (make - break contact)	
4. MOUNTING PATTERN		A	AS21	S21 (break - make contact)	
A	Direct, Bottom connection		AS22	S22 (break – break contact)	
C	Wall/Surface/mounting, Bottom connection		Magnetic Contact		
D	Back connection		AM1	M1 (make contact)	
E	Panel/Front flange mounting, Back connection		AM2	M2 (break contact)	
5. PROCESS CONNECTION		13B	AM3	M3 (change-over contact SPDT)	
13B	3/8" BSP (M)		AM11	M11 (make - make contact)	
14B	1/2" BSP (M)		AM12	M12 (make - break contact)	
14N	1/2" NPT (M)		AM21	M21 (break - make contact)	
14M	M20 x 1.5 mm (M)		AM22	M22 (break – break contact)	
6. WINDOW		AY	Inductive Contact		
AY	Acrylic		AI1	I1 (make contact)	
GS	Glass		AI2	I2 (break contact)	
7. EXECUTION		EA	AI11	I11 (make - make contact)	
EA	Dry		AI12	I12 (make - break contact)	
EH	Silicon oil		AI21	I21 (break – make contact)	
8. TUBE & SOCKET MATERIAL		MF	AI22	I22 (break - break contact)	
MF	AISI 316		Electronic Contact		
CM	Alloy 400		AE1	E1 (make contact)	
9. CASE/BEZEL MATERIAL		MC	AE2	E2 (break contact)	
MC	AISI 304		AE11	E11 (make – make contact)	
MF	AISI 316		AE12	E12 (make – break contact)	
11. OTHER OPTIONS		TN	AE21	E21 (break – make contact)	
TN	NACE standards		AE22	E22 (break – break contact)	
TC	Material test certificate				
TA	Calibration certificate				
AK	Adjusting key for contact				
EM	Dampening screw, Monel				
EN	Dampening screw, AISI 316 SS				

Ordering Example:

MT-P100EC-05-XXX-CL5-A-13B-AY-EA-MF-MC-AS1-TN

STANDARD RANGES

RANGE	"bar"	"kg/cm ² "	"bar / psi"	RANGE	"psi"	RANGE	"kPa"	RANGE	"MPa"
0...1	B02	K02	N02	0...15	S02	0...100	E02	0...0.1	M02
0...1.6	B03	K03	N03	0...25	S03	0...160	E03	0...0.16	M03
0...2.5	B05	K05	N05	0...35	S05	0...250	E05	0...0.25	M05
0...4	B06	K06	N06	0...60	S06	0...400	E06	0...0.4	M06
0...6	B07	K07	N07	0...100	S07	0...600	E07	0...0.6	M07
0...10	B09	K09	N09	0...150	S09	0...1000	E09	0...1	M09
0...16	B11	K11	N11	0...235	S11	0...1600	E11	0...1.6	M11
0...25	B13	K13	N13	0...365	S13	0...2500	E13	0...2.5	M13
0...40	B16	K16	N16	0...600	S16	0...4000	E16	0...4	M16
0...60	B17	K17	N17	0...870	S17	0...6000	E17	0...6	M17
0...70	B18	K18	N18	0...1000	S18	0...7000	E18	0...7	M18
0...100	B19	K19	N19	0...1500	S19	0...10000	E19	0...10	M19
0...160	B21	K21	N21	0...2300	S21	0...16000	E21	0...16	M21
0...250	B24	K24	N24	0...3600	S24	0...25000	E24	0...25	M24
0...400	B27	K27	N27	0...6000	S27	0...40000	E27	0...40	M27
0...600	B29	K29	N29	0...8700	S29	0...60000	E29	0...60	M29
0...700	B30	K30	N30	0...10000	S30	0...70000	E30	0...70	M30
0...1000	B31	K31	N31	0...15000	S31	-	-	0...100	M31
0...1600	B34	K34	N34	0...23200	S34	-	-	0...160	M34
-0.6...0	B35	K35	N35	-	-	-60...0	E35	-0.06...0	M35
-1...0	B37	K37	N37	-	-	-100...0	E37	0.1...0	M37
-1...0.6	B38	K38	N38	-	-	-100...60	E38	-0.1...0.06	M38
-1...1.5	B39	K39	N39	-	-	-100...150	E39	-0.1...0.15	M39
-1...3	B42	K42	N42	-	-	-100...300	E42	-0.1...0.3	M42
-1...5	B43	K43	N43	-	-	-100...500	E43	-0.1...0.5	M43
-1...9	B45	K45	N45	-	-	-100...900	E45	-0.1...0.9	M45
-1...15	B47	K47	N47	-	-	-100...1500	E47	-0.1...1.5	M47
-1...24	B49	K49	N49	-	-	-100...2400	E49	-0.1...2.4	M49

NOTES

1. Other scales & measurement units are available.
2. Equivalent scales available in kg/cm², psi, kPa, MPa, bar/psi, kPa/bar, kPa/psi or any other special scales.
3. Primary scales shall be in «BLACK» and secondary scales shall be «RED».
4. Special scales, custom dial design, OEM/private logo printing is available, details contact our marketing team.

Single Contact	Make-contact, which is also called Normally Open (NO). The contact switch makes contact when the pointer reaches the set point in the clockwise position.		Typ S1/M1 		Typ I-1
Single Contact	Break-contact, which is also called Normally Closed (NC). The contact switch breaks the contact when the pointer reaches the set point in the clockwise position.		Typ S2/M2 		Typ I-2
Double Contact	Make-contact, which is also called Normally Open (NO). Both of the contacts 'makes' contact when the pointer reaches the set point in the clockwise direction.		Typ S11/M11 		Typ I-11
Double Contact	Make/Break-contact. The 1st contact makes and the 2nd contact breaks when they reach their set point in clockwise direction.		Typ S21/M21 		Typ I-21
Double Contact	Break/Make-contact. The 1st contact breaks and the 2nd makes when they reach their set point in clockwise direction.		Typ S21/M21 		Typ I-21
Double Contact	Break-contact. Both of the contacts 'breaks' contact when the pointer reaches the set point in the clockwise direction.		Typ S22/M22 		Typ I-22