

PP CASE PRESSURE GAUGE



Bourdon Tube, DN100 & DN150

MIEPL make PP Case Pressure Gauges are based on the proven Bourdon tube measuring system. On pressurization, the deflection of the Bourdon tube, proportional to the incident pressure, is transmitted to the movement via a link and indicated. The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges.



FEATURES

- All SS Measuring System
- Polypropylene case & ring
- Dry / Liquid filled

APPLICATION

- Liquid & Gaseous mediums
- Corrosive Environments
- Oil & Gas application
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

REFERENCE

EN 837-1

STANDARD SPECIFICATIONS

DN100 / DN150 Dial size : -1...0...2,000 bar Range Direct, Bottom connection Mounting pattern **Process connection** 1/2" NPT (M) Ingress protection IP 54 / IP 65 : Dry / Dry but fillable, glycerin

STANDARD PARAMETERS

Execution

Accuracy CL 1.0 **Ambient Temperature** : -40...+65°C (without dampening liquid) -20...+65°C (with dampening liquid) **Service Temperature** 120°C max. **Pressure Limits** Steady pressure up to FS value Fluctuating pressure up to 90% of FS value Short time 1.3 x FS value for range up to 100 bar Short time 1.15 x FS value for range above 100 bar **Weld Joints** TIG argon arc welding (Bourdon tube + Shank)

MATERIAL OF CONSTRUCTION

Bourdon Tube (<100 bar: C - type, >100 bar: Helical) Sensing Element Case & Ring Material Polypropylene (PP), Threaded type **Bourdon Tube & Shank** AISI 316L SS (Shank screwed with case) Movement mechanism **AISI 304 SS** Dial Aluminum, black graduation on white background Pointer Micro-zero adjustable, aluminum, black powder coated Gaskets, Blow off disc & filling plug Window : Sheet glass / Shatterproof safety glass

STAD. SPECIFICATIONS: DAMPENING LIQUID FILLED, GLYCERIN

Safety glass Window Dampening liquid Glycerin 99.7% [Service temperature up to 65°C]

TEMPERATURE EFFECT

Please refer clause no 9.0 of EN 837-1

** DN250 available as standard "Dry" (Code E1) version. For other versions contact factory.

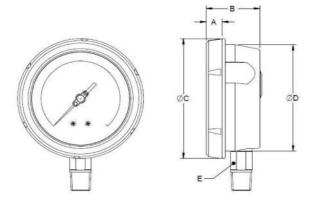


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DRAWING

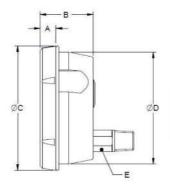
DIMENSIONAL DRAWING



Type - 1A							
DN	100	150					
Α	16.5	16.0					
В	56	50					
ØC	129.0	179.5					
ØD	116.0	167.5					
E	SQ.22	SQ.22					
Weight (gm)	520	910					

DIMENSIONAL DRAWING





	Type - 2E	
DN	100	150
Α	16.5	16.0
В	56	55
ØC	129	179.5
ØD	116.0	167.5
E	SQ.22	SQ.22
Weight (gm)	520	910

All dimensions are in mm.



PP CASE PRESSURE GAUGE



ODE		MP05 - D	- X	XX - 1A	4NM	- IP2	E2	- XX
100 mm / 4"		D						
150mm / 6"		F						
Refer "Range Table"			X	xx				
Direct, Bottom connection				1A				
Lower, Back connection				2E				
1/4" BSP (M)					2BM			
1/4" NPT (M)					2NM			
3/8" BSP (M)					звм			
1/2" BSP (M)					4BM			
V50 T0					4MM			
×					High to			
	oveilabl	o on request t			HINIM			
	avallab	e on request.						
						100000000		
IP 66								
IP 67						IP4		
Dry ³							E1	
Dry but fillable							E2	
Dampening liquid filled, glycerin	е						E4	
Dampening screw, Monel	DM	Knife edge pointer	FX	Certificatio	n for oxyg	gen servi	се	so
Dampening screw, AISI 316 SS	DN	Monel wetted parts	LN	Performance test			SP	
Internal overload stop	DX	Dial with Ammonia temperature scale	M9	C.C ⁴ . with NABL traceability				ST
Internal vacuum stop	DY	Over range protection 1.5 x FS	NP					WA
Pointer stop on dial		And the second of the second o	Q9	SS tag plate, AISI 304 SS				WF
							WG	
17 17							WR	
Market Control Control Control		Property of the same of the same of the same of		Diai tag ma	arking			WT
Ordering Notes: 1. For other connections, please contact		MP05 - D - XXX - 1A - 4NM	- IP2	E2 - XX				
	Refer "Range Table" Direct, Bottom connection Lower, Back connection 1/4" BSP (M) 1/4" NPT (M) 3/8" BSP (M) 1/2" NPT (M) Other therad size and standards IP 65 IP 66 IP 67 Dry³ Dry but fillable Dampening liquid filled, glycering Dampening screw, Monel Dampening screw, AISI 316 SS Internal overload stop Internal vacuum stop Pointer stop on dial Dial with Freon temperature scalesShatterproof glass Toughened glass AISI 316 SS movement Dampened movement Ordering II Notes:	100 mm / 4" 150mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection ½" BSP (M) ½" NPT (M) 3/8" BSP (M) ½" NPT (M) Other therad size and standards available IP 65 IP 66 IP 67 Dry³ Dry but fillable Dampening liquid filled, glycerine Dampening screw, Monel Dampening screw, AISI 316 SS Internal overload stop DX Internal vacuum stop Pointer stop on dial DZ Dial with Freon temperature F9 scalesShatterproof glass FC Toughened glass AISI 316 SS movement Dampened movement FM Ordering Example:	100 mm / 4" 150 mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection 1/4" BSP (M) 1/4" NPT (M) 3/8" BSP (M) 1/2" NPT (M) Other therad size and standards available on request.¹ IP 65 IP 66 IP 67 Dry² Dry but fillable Dampening liquid filled, glycerine Dampening screw, Monel Dampening screw, AISI 316 SS DN Monel wetted parts Internal overload stop Internal overload stop DY Over range protection 1.5 x FS Pointer stop on dial DZ Receiver gauge³ Dial with Freon temperature scalesShatterproof glass FC Material test certificate 3.1 Toughened glass FD Helium leak testing AISI 316 SS movement Dampened movement FM Tested to NACE standards Ordering Example: MP05 - D - XXX - 1A - 4NM Notes:	100 mm / 4" 150 mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection ¼" BSP (M) ½" NPT (M) 3/6" BSP (M) ½" NPT (M) Other therad size and standards available on request.¹ IP 65 IP 66 IP 67 Dry³ Dry but fillable Dampening liquid filled, glycerine Dampening screw, Monel Dampening screw, AISI 316 SS DN Monel wetted parts LN Internal overload stop Dx Dial with Ammonia temperature scale M9 Pointer stop on dial Dz Receiver gauge³ Dial with Freon temperature SA Scales Shatterproof glass FC Material test certificate 3.1 SC Toughened glass FD Helium leak testing SL AISI 316 SS movement FL Material test certificate 2.2 SM Ordering Example: MP05 - D - XXX - 1A - 4NM - IP2 Notes:	100 mm / 4" 150 mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection 2E W* BSP (M) %* NPT (M) 3/6" BSP (M) M20 X 1.5 mm (M) ½* NPT (M) Other therad size and standards available on request.¹ IP 65 IP 66 IP 67 Dry³ Dry but fillable Dampening screw, Monel Dampening screw, AISI 316 SS DN Monel wetted parts Internal overload stop Internal vacuum stop DY Over range protection 1.5 x FS NP Accuracy (Constitution of the protection of the p	100 mm / 4" 150mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection 2E /** BSP (M) 2BM /** NPT (M) 3/8* BSP (M) M20 X 1.5 mm (M) 4MM /** NPT (M) Other therad size and standards available on request.¹ IP 65 IP 66 IP 67 Dry² Dry but fillable Dampening screw, Monel Dampening screw, AlSi 316 SS DN Monel wetted parts Internal vacuum stop DX Dial with Ammonia temperature scale Internal vacuum stop DY Over range protection 1.5 x FS NP Accuracy Ct. 0.5 / C Performance test Internal vacuum stop DY Over range protection 1.5 x FS NP Accuracy Ct. 0.5 / C Performance test Internal vacuum stop DY Over range protection 1.5 x FS NP Accuracy Ct. 0.5 / C Stag plate, AlSi 3: ScalesShatterproof glass FC Material test certificate 3.1 SC Custom designed di Toughened glass FD Helium leak testing SL Dial tag marking Notes: Notes:	100 mm / 4" 150mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection 2E ** BSP (M) 2BM ** NPT (M) 3/8" BSP (M) 38M ** NPT (M) 4NM ** NPT (M) ** NPT (M)	Tool mm / 4" 150mm / 6" Refer "Range Table" Direct, Bottom connection Lower, Back connection Lower, Back connection 2E 2BM 2BM 2BM 2NM 3/8" BSP (M) 38B ABM 4BM M20 X 1.5 mm (M) 4MM M20 X 1.5 mm (M) 4MM M2" NPT (M) Other therad size and standards available on request." IP 65 IP 66 IP 3 IP 67 IP 67 IP 69 Dry³ Dry but fillable Dampening screw, Monel Dampening screw, Monel Dampening screw, Monel Dampening screw, AlSI 316 SS DN Monel wetted parts Internal vacuum stop DV Over range protection 1.5 x FS Pointer stop on dial DZ Receiver gauge* Q9 SS tag plate, AlSI 316 SS Toughened glass FO Hellum leak testing SN Ordering Example: MP 05 - D + XXXI - 1A - 4NM - IP2 - E2 - XX Notes: