Double diaphragm differential pressure gauge
Model D105

Max. Static pressure 400 bar

Nominal size 100 mm or 150 mm
Accuracy: Class 1,6



Features

- Stainless steel case and wetted parts
- Max static pressure 400 kg/cm^2, one side load permitted
- Chamber purge and bleed connection available
- High corrosive resistance
- Dry or liquid filled
- Dual diaphragm, solid front not required
- IP65

Ranges

0 ... 250 mmWC up to 0 ... 25 kg/cm^2

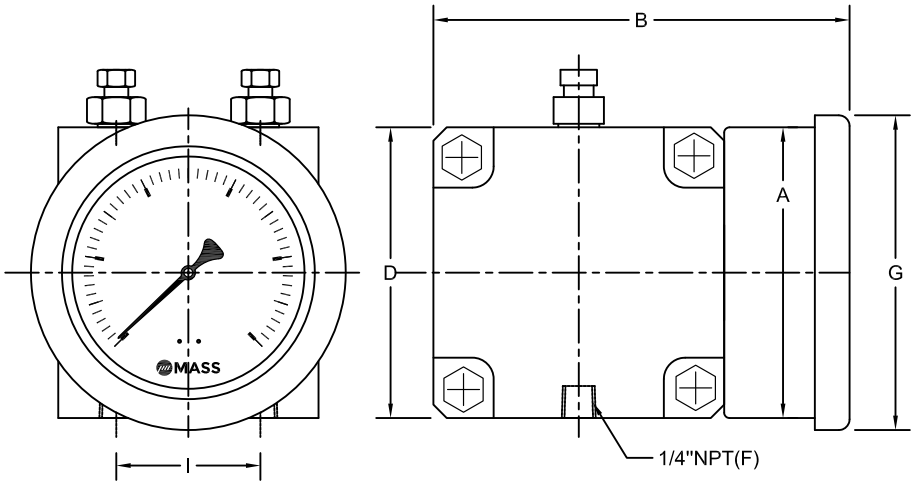
Applications

Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry

Technical specification	D105	
Dial size in mm	100	150
Construction	Cylindrical case	
Zero adjustment	Optional, Externally at the top of the case.	
Measuring principle	Dual diaphragm safety design, solid front not required	
Static Pressure	25 kg/cm^2 standard for ranges 250 to 1000 mmWC 100 kg/cm^2 standard for ranges 1600 mmWC to 25 bar Optional 100, 250 & 400 kg/cm^2 (refer limits below)	
Pressure range	250 to 1000 mmWC	1600 mmWC to 25 bar
Max static pressure	100 kg/cm2	250 kg/cm2 & 400 kg/cm2
Overload capability	Static pressure is also maximum pressure allowed on one side	
Pressure type	Differential	
Process connection	1/4” NPT (F), 1/4” NPT (M), 1/2” NPT (M), 1/4” BSP (M), 1/2” BSP (M), others on request	
Connection location	Lower	
Material		
Pressure connection	Stainless steel 316L (1.4404)	
Pressure chamber	Stainless steel 316L (1.4404)	
Measuring diaphragm	Stainless steel 316L / Stainless steel 316Ti	
Case/bayonet ring	Stainless steel 304, optional 316	
Window	Laminated safety glass	
Dial	Aluminum, black markings on white background	
Pointer	Micro Pointer Aluminum, black,	
Accuracy	Class 1,6 (1,6 % F.S.)	
Permissible		
Zero shift	±2% at maximum static pressure	
Ambient temperature	-20 ... 60 °C	
Medium temperature	Max. 100 °C	
Storage temperature	-40 ... 60 °C	
Effect	Max. 0,6 % / 10 K	
Protection according EN 60 529/IEC 529	IP65	
Filling liquids	Glycerin, silicone, others on request	
Mounting	Direct, optional 2" pipe mounting	
Weight small / large chamber in kg	5.1/11.0	5.7/11.6
Accessories, options	3 or 5 way remote or direct mounted manifolds, valves, NACE	

All specifications are subject to change without notice.

General dimensions in mm



RANGE	≥1600mmWC		<1600mmWC	
SIZE	100	150	100	150
A	103	150	103	150
B	150	150	200	200
D	100	100	150	150
G	118	166	118	166
I	54	54	54	54

Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/case/ contacts	Options
(100) 100 mm **(150)** 150 mm	**D105**	**(S) Pressure chamber** 316L (1.4404) **Diaphragm** 316L / 316 Ti	**(L)** IP65	**(02)** ¼" NPT (M) **(04)** ½" NPT (M) **(13)** ¼" BSP (M) **(15)** ½" BSP (M) **(02T)** ¼" NPT (F) others on request	**(L)** Lower	**0/250**[1] **0/400** **0/600** **0/1000** **0/1600**[1] **0/2500** **0/4000** **0/ 0,6** **0/ 1** **0/ 1,6** **0/ 2,5** **0/ 4** **0/ 6** **0/ 10** **0/ 16** **0/ 25**	**(mmWC)** **(kg/cm²)** psi and others on request	**(=)** Standard no filling **(GV)** Silicone **(GR)** Glycerin **(YW)** Case material 316	**(NH)** Tagging wired **(6B)** Oxygen service **(CS)** Dual scale **(DA)** Dial marking **(EZ)** External zero adjustment **(TM)** 2" pipe mounting bracket **(PN100)** Static pressure 100 bar **(PN250)** Static pressure 250 bar[2] **(PN400)** Static pressure 400 bar[2]

1) Dial arc shall be 180° 2) only with ranges ≥1600 mmWC

Order example

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/case/ contacts	Option
150	D105	S	L	04	L	0/600	mmWC	=	NH

Precision Mass Products Pvt. Ltd.
Plot No.: 2306, G.I.D.C. Chhatral, Ta: Kalol, Dist.: Gandhinagar,
Chhatral -382729, Gujarat, India.
Telephone: +91-2764 233681/82/83 Fax: +91-2764-233440
Email: sales@precisionmass.com www.precisionmass.com

• North Zone : sales.delhi@precisionmass.com
• East zone : sales.kolkata@precisionmass.com
• West zone : sales.mumbai@precisionmass.com
• South zone : sales.chennai@precisionmass.com