

Stainless steel differential pressure gauge

Model F5503

Max. static pressure 100 bar

Nominal size 100 mm or 160 mm

Accuracy: Class 1,6 (EN), optional 1 %



Features

- Stainless steel case and wetted parts
- Static pressure 100 bar, one side load permitted
- Protection IP65, optional IP66
- Chamber purge and bleed connection
- High corrosive resistance
- Dry or liquid filled
- Dual diaphragm, safety design as solid front


Ranges

0 ... 40 mbar up to 0 ... 40 bar

Applications

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



Technical specification	F5503	
	100	160
Dial size in mm	100	160
Construction	Cylindrical case	
Zero adjustment	Externally, at the top of the case	
Measuring principle	Dual diaphragm (principle see back side), safety design similar to solid front	
Range in mbar	40 60 100 160 250 400	
in bar	0,6 1 1,6 2,5 4 6 10 16 25 40	
Max. static pressure	100 bar	
Overload capability	Static pressure is also maximum pressure allowed on one side	
Pressure type	Differential	
Process connection	Flange for direct mounted manifolds similar to DIN EN 61518 with G ½ female G ¼ B male, G ¼ female, G ½ B male, ¼ NPT male, ¼ NPT female, ½ NPT male, ½ NPT female, others on request	
Purge and bleed connection	On top of both pressure chambers, G ¼ female with plug	
Connection location	Lower	
Material	Stainless steel 316L (1.4404), optional Hastelloy C-276	
Pressure connection	Stainless steel 316L (1.4404), optional Hastelloy C-276, Viton O-ring, Teflon on request	
Pressure chamber	≤ 400 mbar stainless steel 316Ti (1.4571), optional Hastelloy C276	
Measuring diaphragm	> 400 mbar Duratherm 2.4781 (NiCrCo alloy), 40 bar Inconel 718 (2.4668), optional Hastelloy C 276 (ranges ≥ 4 bar with Hastelloy foil, not suitable for vacuum, only with accuracy class 1.6 (EN)) or Monel	
Case/bayonet ring	Stainless steel 304 (1.4301), optional 316L (1.4404)	
Window	Laminated safety glass	
Dial	Aluminum, black markings on white background	
Pointer	Aluminum, black, optional red set hand or maximum pointer	
Accuracy	Class 1,6 (1,6 % F.S.), optional 1 % or 0,5 % according to ASME B40.1 unidirectional	
Permissible	-20 ... 80 °C, optional ATEX -20 ... 60 °C	
Ambient temperature	Max. 85 °C	
Medium temperature	-40 ... 70 °C	
Storage temperature	Max. 0,3 % / 10 K	
Effect		
Conformity according to RL 2014/34/EU appendix X for mechanical equipment in potential hazardous areas	 II 2G Ex h IIC T4 Gb II 2D Ex h III C T95°C Db Ta = -20°C to +60°C Optional, Marking File no. 35106158 at notified body 0044, TÜV NORD CERT	
Protection according EN 60 529/IEC 529	IP65, optional IP66 / NEMA 4X (only for option LJ or liquid filled cases)	
Filling liquids	Glycerin, silicone, others on request	
Mounting	Direct, optional wall or 2" pipe mounting (not for ranges ≤ 400 mbar), others on request	
Weight dry/filled in kg		
≤ 400 mbar	9/9,5	9,4/10
≥ 600 mbar	4/4,5	4,5/5
Accessories, options	3 or 5 way remote or direct mounted manifolds, gauges with contacts (see data sheet G1.K55/E), diaphragm seals, NACE/ISO 15156	

