

Stainless steel differential pressure gauge

Model F5509 and F6509

Max. static pressure 25 bar

Nominal size 100 mm or 160 mm

Accuracy: Class 2,5 (DIN), optional 1,6%

Features

- Stainless steel case and wetted parts
- Static pressure 10 bar or 25 bar one side load permitted
- Protection IP54 or IP65
- Chamber purge and bleed connection available
- High corrosive resistance
- Dry or liquid filled
- Optional solid front

Ranges

0 ... 25 mbar up to 0 ... 250 mbar (max. static pressure 10 bar)

0 ... 400 mbar up to 0 ... 25 bar (max. static pressure 25 bar)

Applications

Chemical and petrochemical industry

Machine and apparatus construction

Food and beverage industry

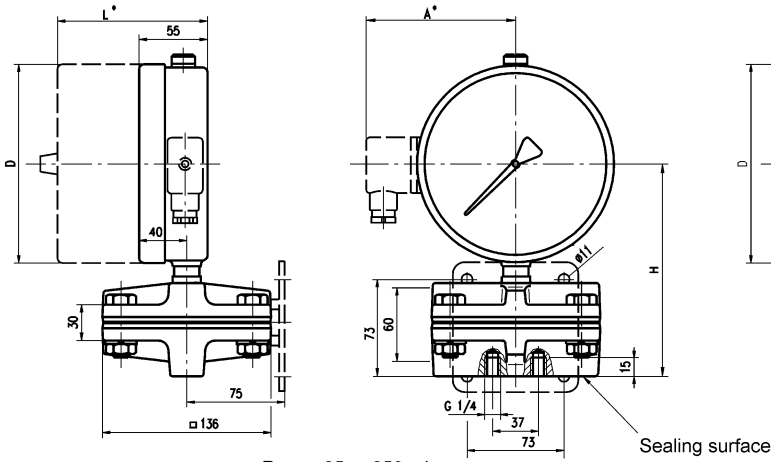
Pulp and paper industry



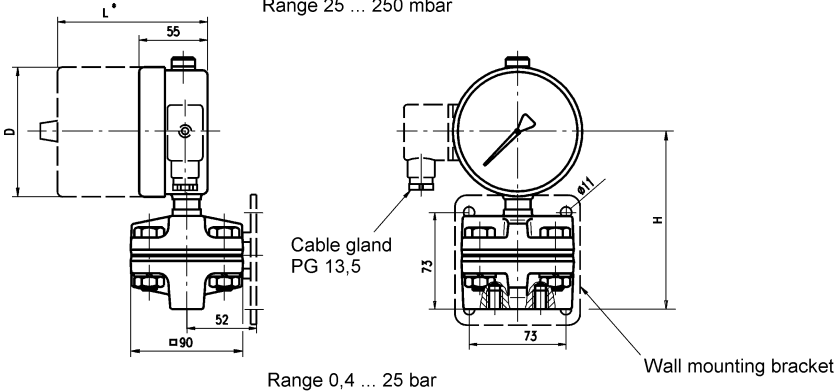
Technical specification	F5509		F6509	
Dial size [mm]	100	160	100	160
Construction	Open front cylindrical case with blow out disc at the back		Solid front safety pattern cylindrical case with blow out at the back	
Zero adjustment	Externally, at the top of the case			
Measuring principle	Diaphragm (see back side)			
Range [mbar]	25 40 60 100 160 250 400			
[bar]	0,6 1 1,6 2,5 4 6 10 16 25			
max. static pressure	Range < 400 mbar static pressure = 10 bar (10 times F.S. load at one side) Range ≥ 400 mbar static pressure = 25 bar (10 times F.S. load at one side)			
Pressure type	Differential			
Process connection	G ¼ B male, G ¼ female, G ½ B male, G ½ female ¼" NPT male, ¼" NPT female, ½" NPT male, ½" NPT female, others on request			
Connection location	Lower			
Material	Pressure connection: Stainless steel AISI 316Ti (1.4571) Pressure chamber: Stainless steel AISI 316Ti (1.4571), Viton O-ring, Teflon on request Measuring diaphragm: > 1 bar stainless steel AISI 316Ti (1.4571) ≤ 1 bar Duratherm (NiCrCo alloy) Bellows: Stainless steel AISI 316Ti (1.4571) Case/bayonet ring: Stainless steel AISI 304 (1.4301) Window: Laminated safety glass Dial: Aluminum, black markings on white background Pointer: Aluminum, black, optional red set hand or maximum pointer Movement: Stainless steel AISI 304/AISI 303 (1.4301/1.4305)			
Accuracy	Class 2,5 (2,5% F.S.), optional class 1,6 (1,6% F.S.)			
Permissible	Ambient temperature: -25 ... 85°C Medium temperature: max. 100°C Storage temperature: -40 ... 60°C Effect: max. 0,3% / 10 K			
Protection according EN 60 529/IEC 529	IP54 (dry), IP65 (liquid filled), optional IP65 for dry gauges			
Filling liquids	Glycerin, silicone, others on request			
Mounting	Direct, optional wall or 2" pipe mounting, others on request			
Weight dry/filled [kg]	range	≤ 400 mbar 9/9,5 ≥ 600 mbar 4/4,5	≤ 400 mbar 9,4/10 ≥ 600 mbar 4,4/5	≤ 400 mbar 9/9,5 ≥ 600 mbar 4/4,5
Accessories, options	3 or 5 way manifolds, valves, gauges with contacts (see data sheet G1.K55/D)			

General dimensions [mm]

F5509

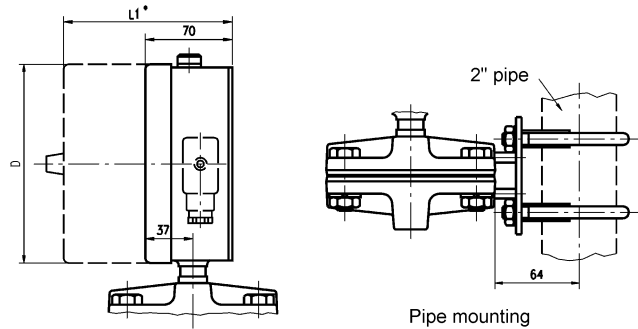


Range 25 ... 250 mbar

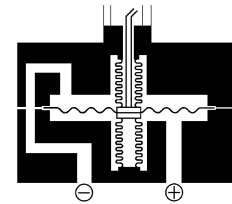


Range 0,4 ... 25 bar

F6509



Measuring principle



* with integrated contacts

Dial Size	D	H	A	L	L1
100	∅ 101	140	86	100	116
160	∅ 161	170	120	102	118

Rev.B

Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/contacts	Options
(100) 100 mm	F5509	(S) Pressure compartment AISI 316Ti (1.4571)	(=) IP54 standard case	(27) G ¼ female	(L) Lower	0/ 25 0/ 40 0/ 60 0/ 100 0/ 160 0/ 250 0/ 400	(MBAR)	(=) Standard no filling (GV) Silicone (GR) Glycerin	(NH) Tagging wired (DA) Dial marking (FW) Wall mounted bracket
(160) 160 mm	F6509	Diaphragm > 1 bar AISI 316Ti (1.4571), ≤ 1 bar Duratherm Bellows AISI 316Ti (1.4571)	(L) Liquid filled IP65	(02) ¼" NPT male (04) ½" NPT male (13) G ¼ B male (15) G ½ B male (25) ¼" NPT female (50) ½" NPT female (51) G ½ female		0/ 0,6 0/ 1 0 1,6 0/ 2,5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25	(BAR)	() Contact type and function (see data sheet G1.K55/E)	(TB) Purge and vent connection G 1/8 (EP) Maximum pointer adjustable (TM) 2" pipe mounting bracket (LJ) Field fillable IP65 (only for execution =)
						max. static pressure for < 400 mbar 10 bar for ≥ 400 mbar 25 bar	psi and others on request compound ranges on request		

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/contacts	Option
100	F5509	S	S	27	L	0/16	BAR	=	TM