

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, optional class 1,6 (EN)



Features

- Stainless steel case and wetted parts
- Static pressure 10 bar or 25 bar
- 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

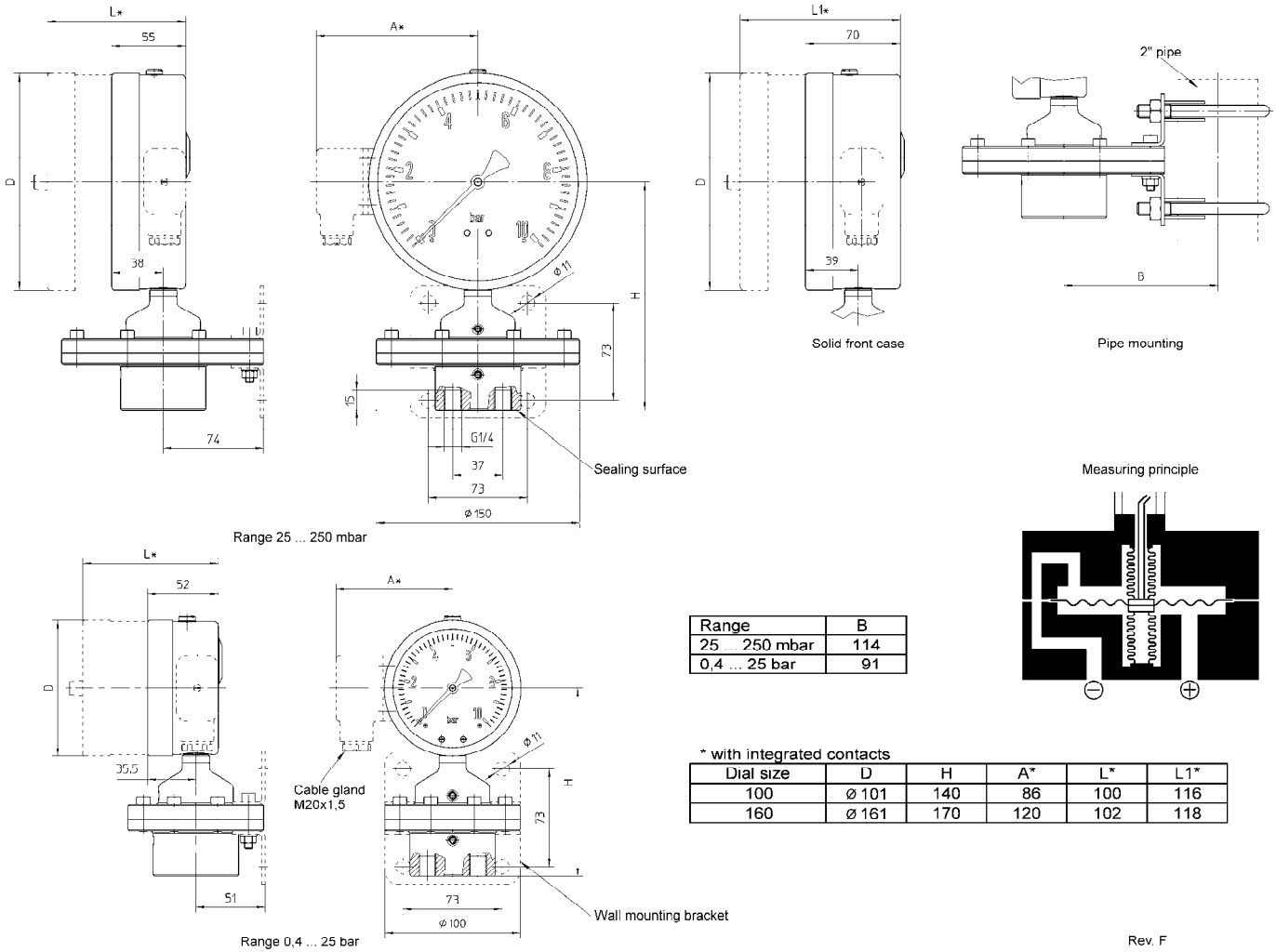
Machine and apparatus construction

Food and beverage industry

Pulp and paper industry

Technical specification	F5509		F6509	
	100	160	100	160
Dial size in mm				
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 in mbar	25	40	60	100
in bar	0,6	1	1,6	2,5
Max. static pressure	4	6	10	16
Pressure type	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) Differential			
Process connection	G 1/4 B male, G 1/4 female, G 1/2 B male, G 1/2 female 1/4 NPT male, 1/4 NPT female, 1/2 NPT male, 1/2 NPT female, others on request			
Connection location	Lower			
Material	Stainless steel 316Ti (1.4571)			
Pressure connection	Stainless steel 316Ti (1.4571), Viton O-ring, EPDM on request			
Pressure chamber	≤ 1 bar stainless steel 316Ti (1.4571)			
Measuring diaphragm	> 1 bar Duratherm (NiCrCo alloy)			
Bellows	Stainless steel 316Ti (1.4571)			
Case/bayonet ring	Stainless steel 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 304/303 (1.4301/1.4305)			
Accuracy	Class 2,5 (2,5 % F.S.), optional (for ranges ≥ 60 mbar) class 1,6 (1,6 % F.S.)			
Permissible	-25 ... 85 °C			
Ambient temperature	Max. 100 °C			
Medium temperature	-40 ... 60 °C			
Storage temperature	Max. 0,3 % / 10 K			
Effect				
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 in kg	range	≤ 400 mbar 9/9,5	≤ 400 mbar 9,4/10	≤ 400 mbar 9/9,5
		≥ 600 mbar 4/4,5	≥ 600 mbar 4,4/5	≥ 600 mbar 4/4,5
Accessories, options	3 or 5 way manifolds, valves, gauges with contacts (see data sheet G1.K55/E)			

General dimensions in mm



Rev. F

Order information

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineer-in unit	Filling/contacts	Options
(100) 100 mm	F5509	(S) Pressure compartment 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	(NH) Tagging wired (DA) Dial marking
(160) 160 mm	F6509	Diaphragm ≤ 1 bar 316Ti (1.4571), > 1 bar Duratherm Bellows 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	(GV) Silicone (admissible for inductive contacts) (GT) Napvis (admissible for magnetic spring contacts) (GR) Glycerin () Contact type and function (see data sheet G1.K55/E)	(FW) Wall mounting bracket (TM) 2" pipe mounting bracket (EP) Maximum pointer adjustable (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		

Order example

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

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