

PISTON TYPE MECHANICAL DIFFERENTIAL PRESSURE GAUGE

PRESSURE GAUGES

Reotemp's Series D21 Piston Type Mechanical Differential Pressure Gauge is recommended when both the differential and the static pressures are high and where a small amount of migration of process media is allowed. The mechanism utilizes a piston, magnet, and calibrated rotary movement.



D21



Fillable

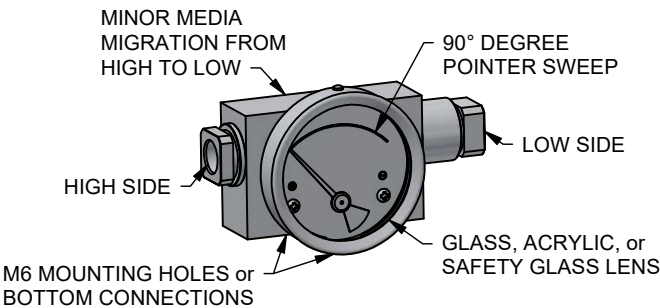
FEATURES / BENEFITS

- Rugged, Compact, Cost Effective Design
- Weatherproof Rated to NEMA 4/IP65
- Working Pressure Up to 6,000 psi
- Over-range Protection to Max Working Pressure
- Popular for Filters and Strainers
- ± 2% Full Scale Ascending Accuracy
- 5 Year Warranty

SPECIFICATIONS

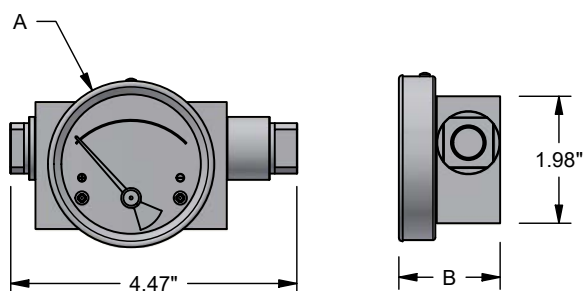
Accuracy	± 2% Full Scale Ascending
Range	5-1050 psid
Ambient Limits	32°F-175°F ²
Process Limits	32°F-175°F ²
Process Limits with Diaphragm Seal	Series D21 cannot be mounted to a diaphragm seal. See series D40/50 for gauges mountable to a diaphragm seal.
Wetted Materials	Body: Aluminum, 316SS, Brass, or Monel Internal Parts: SS 302 Spring and Ceramic Magnet Gasket/Seals: Buna-N, Viton, or EPDM
Lens	Glass (Standard), Plastic, or Safety Glass
Case	304SS, 316SS, or Engineered Plastic
Fillable	Yes
Maximum Working Pressure	3,000 psi - Aluminum Body or Brass 6,000 psi - 316SS Body or Monel
Environmental Protection	NEMA 4/IP65

² Gauge can withstand -40°F to 200°F, but accuracy will be affected.

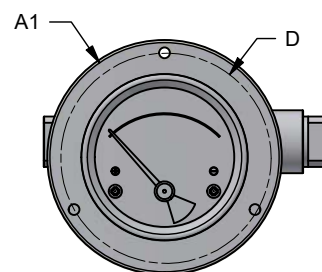


Product Overview

PISTON TYPE MECHANICAL DIFFERENTIAL PRESSURE GAUGE



304SS Case



304SS Case with Front Flange

Dial	A	B	A1	D
2"	2.09"	1.69"	3.11"	2.72"
2.5"	2.60"	1.73"	3.66"	3.27"
3.5"	3.27"	1.73"	4.29"	3.90"
4"	4.11"	1.73"	5.16"	4.76"
4.5"	4.71"	1.73"	5.75"	5.35"
6"	6.07"	1.73"	7.13"	6.73"

PISTON TYPE MECHANICAL DIFFERENTIAL PRESSURE GAUGE

HOW TO ORDER: Choose options to build a part number. For example: **D2125PAB-B4XXX-PD5-C3**

D21	25P	A	B	-B4	XX	X
SERIES	DIAL SIZE/ CASE MATERIAL	BODY	GASKETS	PROCESS CONNECTION	SWITCH OR TRANSMITTER TYPE & HOUSING	ELECTRICAL SPECIFICATION
D21 = Mechanical DP Gauge, Piston Style (5-1050 psid)	XXX = No Dial 20S = 2" Dial, 304SS Case 25S = 2.5" Dial, 304SS Case 35S = 3.5" Dial, 304SS Case 40S = 4" Dial, 304SS Case 45S = 4.5" Dial, 304SS Case 60S = 6" Dial, 304SS Case 20E = 2" Dial, 304SS Case with Front Flange 25E = 2.5" Dial, 304SS Case with Front Flange 35E = 3.5" Dial, 304SS Case with Front Flange 40E = 4" Dial, 304SS Case with Front Flange 60E = 6" Dial, 304SS Case with Front Flange 25P = 2.5" Dial, Plastic Case 45P = 4.5" Dial, Plastic Case 60P = 6" Dial, Plastic Case 256 = 2.5" Dial, 316SS Case 356 = 2.5" Dial, 316SS Case 406 = 4" Dial, 316SS Case 456 = 4.5" Dial, 316SS Case 606 = 6" Dial, 316SS Case	A = Aluminum S = 316SS B = Brass M = Monel	B = Buna-N V = Viton E = EPDM	-B4 = 1/4" NPTF Back -B2 = 1/2" NPTF Back -E4 = 1/4" NPTF End Connection -E2 = 1/2" NPTF End Adapters -L4 = 1/4" NPTF Bottom With Manifold Spacing -L2 = 1/2" NPTF Bottom Adapters With Manifold Spacing	XX = None A7 = Single Reed Switch, DIN Plug A8 = Dual Reed Switch, DIN Plug A9 = Single Reed Switch, Terminal Strip A0 = Dual Reed Switch, Terminal Strip D3 = Single Reed Switch, Explosion Proof Enclosure ¹ D4 = Dual Reed Switch, Explosion Proof Enclosure ¹	X = None A = SPDT, 3 VA AC (RMS) or DC (Max), 30 Vac/VDC (Max) B = SPST, 10VAAC (RMS) or DC (Max), 0.5 Amp AC (RMS) or DC (Max), 100 Vac/VDC (Max)

-PD5

-C3

PRESSURE RANGE

-PD5 = 0-5 psid
-PD10 = 0-10 psid
-PD20 = 0-20 psid
-PD50 = 0-50 psid
-PD100 = 0-100 psid

For Additional Range Codes See Page 109

OPTIONS

-M3 = Wall Mounting Kit³
-M8 = Wall Mounting Kit in Stainless Steel³
-M4 = 2" Pipe Aluminum Horizontal Mounting Bracket³
-M5 = 2" Pipe Aluminum Vertical Mounting Bracket³
-M6 = 2" Pipe Stainless Steel Horizontal Mounting Bracket³
-M7 = 2" Pipe Stainless Steel Vertical Mounting Bracket³
-GF = Glycerin Fill²
-SF = Silicone Fill²
-SG = Laminated Safety Glass
-MP = Max Pointer (Not Available with SG)²
-NC = NACE
-TS = SS Tag
-OX = Cleaned for Oxygen
-PA = Plastic Lens
-C3 = 3pt Calibration Certificate
-HP = 1.26" Thick Body for Higher Static Pressure (5,000 PSI for Aluminum, 6,500 PSI for SS)

² Reduces Accuracy

³ Not available with a back mount.

¹ Ratings for Enclosure Only:
 USA/Canada
 UL/CSA Approved for:
 Class I, Div. 1, Groups B, C, and D
 Class II, Div. 1, Groups E, F, and G
 Class III

CSA Approved for:
 Class I, Zone 1 & 2, Group IIB+H2

ATEX/IECEX
 FM Approved for:
 II 2 G Ex d IIC Ta = -20°C/60°C, IP66
 II 2 D Ex tD A21 Ta = -20°C/60°C, IP66

PRESSURE GAUGE RANGES AND CODES

SPECIAL RANGE TYPES

Receiver Ranges			Refrigerant Ranges			Tank Level Ranges	
Code	Element	Dial Range	Code	Dial Range	Refrigerant	Code	Range
P60	3-15 psi	0-100%	N06	-30inHg to 160 psi	Ammonia	F14	0-24ft H ₂ O
P61	3-15 psi	0-10 sq rt	R06	-30inHg to 160 psi	R134A	F15	0-30ft H ₂ O
P62	3-15 psi	0-100% & 0-10 sq.rt.	R06A	-30inHg to 160 psi	R22	F15C	0-40ft H ₂ O
			R06C	-30inHg to 160 psi	R404A	F16	0-60ft H ₂ O
			N07	-30inHg to 200 psi	Ammonia	F165	0-100ft H ₂ O
			N08	-30inHg to 300 psi	Ammonia		

DIFFERENTIAL PRESSURE RANGES (DP GAUGES ONLY)

psid		inH ₂ Od		bard		mbard		kPad	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
PD1	0-1 psid	ID10	0-10 inH ₂ Od	BD1	0-1 bard	MD40	0-40 mbard	AD2.5	0-2.5 kPad
PD3	0-3	ID20	0-20	BD1.6	0-1.6	MD60	0-60	AD6	0-6
PD5	0-5	ID30	0-30	BD2.5	0-2.5	MD100	0-100	AD10	0-10
PD10	0-10	ID50	0-50	BD4	0-4	MD160	0-160	AD25	0-25
PD20	0-20	ID100	0-100	BD6	0-6	MD250	0-250	AD40	0-40
PD50	0-50	ID150	0-150	BD7	0-7	MD400	0-400	AD100	0-100
PD100	0-100	ID200	0-200	BD11	0-11	MD600	0-600	AD250	0-250
PD200	0-200	ID400	0-400	BD55	0-55	MD1000	0-1000	AD700	0-700
PD6000	0-6000			BD400	0-400				