

F5504 Differential Pressure Gauge

Features

- 316L Stainless steel case and wetted parts
- Static pressure up to 5,800 psi
- Ingress protection IP67
- External zero adjustment
- Dry or liquid filled

Typical Uses

- Refineries
- Power plants
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Marine and offshore
- Mining and metals
- Filtration monitoring
- Level and flow measurement



F5504
 100 mm,
 160 mm dial size

Specifications

Accuracy:	316L Stainless steel or Hastelloy® C-276: Class 1.6 with 1.6 % of span Monel® 400: Class 2.5 with 2.5 % of span
Size:	100 mm or 160 mm
Static Pressure: (One side)	1,450 psi (standard) 3,625 psi (optional for ranges 160 inches of water to 600 psi) 5,800 psi (optional for ranges 160 inches of water to 600 psi)
Process Connection:	¼ NPT, ½ NPT, G¼B female
Process Connection Location:	Lower
Case Style:	Open front
Pointer:	Micrometer, adjustable, black aluminum
Movement:	304 Stainless steel
Weather Protection:	IP67, EN 60529/IEC 529
Mounting:	Direct (STD.) Front flange, wall mount, 2" pipe mounting bracket (OPT.)
Liquid Fill:	Glycerin, Silicone, Halocarbon®
Certificates:	NACE (optional)
Weights in lbs:	See table at page 4



Key Benefits

- Perfect choice for challenging application and installation requirements
- Designed for harsh services
- Compatible with diaphragm seals with 10 psi or larger range
- Can be direct mounted to a V02 3 or 5 valve manifold

Wetted Components

Diaphragm	Housing (Chamber)	O-Ring
316L Stainless steel Hastelloy® C-276 Monel® 400	316L Stainless steel Hastelloy® C-276 Monel® 400	Viton™

Non-Wetted Components

Case	Ring	Window
316L Stainless steel	Bayonet ring 316L Stainless steel	Safety glass

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F5504 Differential Pressure Gauge

Ordering Code	Example:	10	F5504	SS	D	04	L	SP1	SG	1	J	40IW	-XC3
Size													
10 - 100 mm		10											
16 - 160 mm													
Model													
F5504 - Differential pressure gauge with open front case			F5504										
Diaphragm and Housing Material													
HH - Hastelloy® C-276 diaphragm and housing													
HS - Hastelloy® C-276 diaphragm and 316L Stainless steel housing													
PM - Monel® 400 diaphragm and housing													
PS - Monel® 400 diaphragm and 316L Stainless steel housing													
SS - 316L Stainless steel diaphragm and housing													
Case													
D - Dry case					D								
G - Glycerin Fill													
H - Halocarbon® Fill													
S - Silicone® Fill													
Process Connection													
04 - ½ NPT Male						04							
25 - ¼ NPT Female													
50 - ½ NPT Female													
51 - G ½ Female													
DM - Oval flange adapter (for use with direct mount V02 manifold)													
Process Connection Location													
L - Lower							L						
Static Pressure													
SP1 - Static pressure maximum 1450 psi								SP1					
SP2 - Static pressure maximum 3625 psi													
SP3 - Static pressure maximum 5800 psi													
Window Material													
SG - Safety glass									SG				
Case Mounting													
0 - Stem mounting													
1 - Front flange (including 2" pipe mounting bracket)										1			
2 - Wall mounting flange													
3 - 2" Pipe mounting bracket													
Accuracy													
J - ±1% of span upscale accuracy (316L Stainless steel only)											J		
L - ±1.6% of span full scale (316L Stainless steel and Hastelloy® C-276 only)													
M - ±2.5% of span full scale (Monel® wetted parts only)													
Range (coding examples only, see range table on page 3 for all standard ranges)													
40IW - 40IWD												40IW	

continued on page 3

F5504 Differential Pressure Gauge

Ordering Code (continued) Example: 10 F5504 SS D 04 L SP1 SG 1 J 40IW -XC3

Options (If choosing an option(s) must include a "-X")
Window & Pointer

EA - External zero adjustment (standard with liquid filled case)

EP - Maximum adjustable pointer with acrylic window

EQ - Minimum adjustable pointer with acrylic window

PD - Acrylic window

Marking/Tagging

CS - Dual scale

DA - Dial marking - text marking on dial

NH - Stainless steel tag

SS - Special scale flow dial

Cleaning

6B - Cleaned for oxygen service (dry gauge only)

Testing/Certificates

C3 - Material certificate per EN 10204 3.1

C4 - Traceable calibration certificate

HY - Hydrostatic testing

MQ - Positive material Identification (PMI)

WO - Wetted parts of western origin (must be ordered with C3 option)

1H - Hydrostatic pressure test of full assembly

5G - Attach to 3 or 5 valve manifold. Must use DM connection code for F5504.

Certification (miscellaneous charges not included within model code)

CD-1 - Certificate of Conformance to Specifications and/or Drawings (Standard)

CD-1A - Certificate of Conformance to Specifications and/or Drawings (Non-Standard) cost per list/order

CD-43 - Typical Material Certification per EN 10204 2.2

CD-5 - Certificate of Compliance for refineries to NACE MR0103-2010 and for oilfields (production) to NACE MRO175/ISO 15156-2009

CD-94 - EAC Certification: Lot charge per P.O.

Pressure Range Table

IW	psi - #	mbar - MB	bar - BR	kPa - KP
24	3	60	0.6	6
40	5	100	1	10
65	10	160	1.6	16
100	15	250	2.5	25
160	30	400	4	40
240	60	600	6	60
N16/24	100	-	10	100
N24/40	250	N40/60	16	160
N65/60	300	N60/100	25	250
N60/100	400	N100/150	40	400
	600	N150/250	-	600
			N1/0.6	
			N1/1.5	
			N1/3	
			N1/5	

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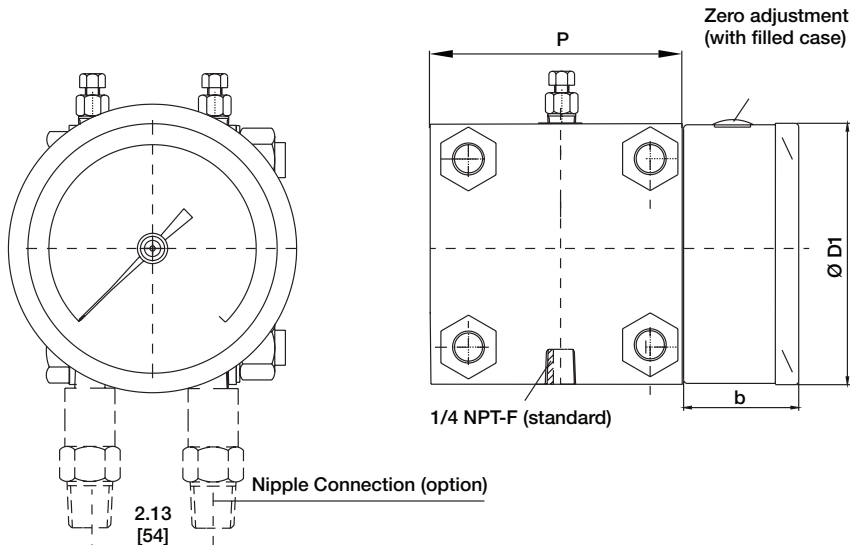
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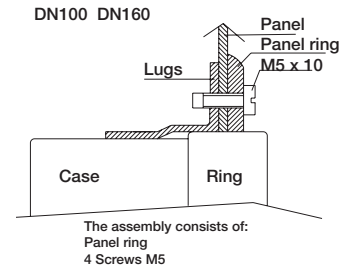
F5504 Differential Pressure Gauge

Dimensions in Inch [mm]

For reference only, consult Ashcroft for specific dimensional drawings



Panel Mounting



Panel Cut Out

Dial Size	Cut Out Ø
100 mm	4.13 [105]
160 mm	6.50 [165]

Dial Size D1	Range IW	P Dimension: Static Pressure to 1,450 psi	P Dimension: Static Pressure >1,450 to <3,625 psi	P Dimension: Static Pressure >3,625 to 5,800 psi	b
100	≤65	5.5 [140]	-	-	2.0 [51]
	>65 to 100	3.94 [100]	3.94 [100]	-	2.0 [51]
	>100 to 160	3.46 [88]	3.46 [88]	3.94 [100]	2.0 [51]
160	≥65	5.5 [140]	-	-	2.0 [51]
	>65 to 100	3.94 [100]	3.94 [100]	-	2.0 [51]
	>100 to 160	3.46 [88]	3.46 [88]	3.94 [100]	2.0 [51]

Weight (lbs)

Dial Size D1	Range IW	P Dimension: Static Pressure to 1,450 psi	P Dimension: Static Pressure >1,450 to <3,625 psi	P Dimension: Static Pressure >3,625 to 5,800 psi
100	>65 to 100	11.5		-
160	>100 to 160	10		15.4

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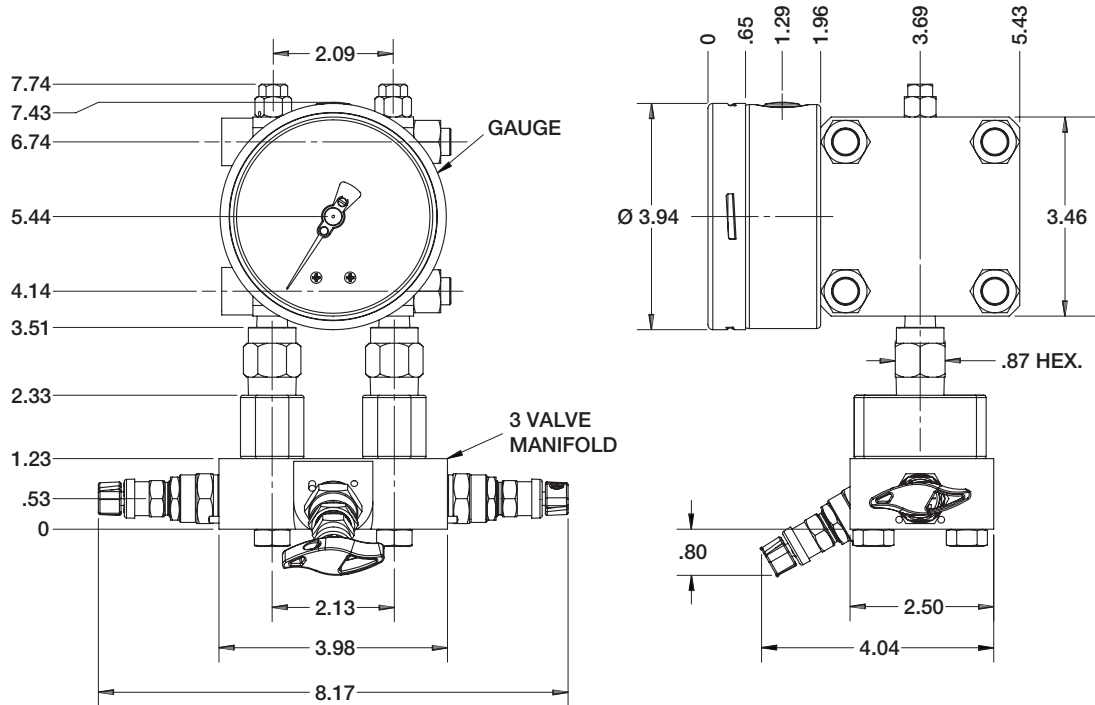
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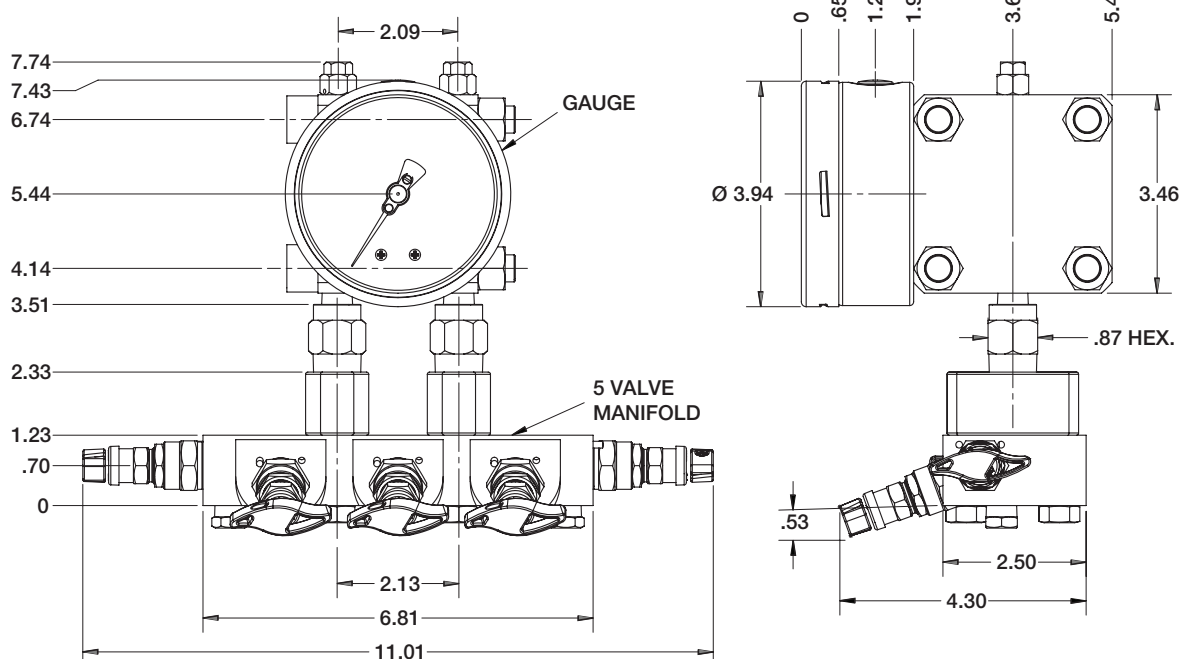
Dimensions in Inches

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P301 with Oval Flange Connection (F5504) V02 3 Valve Manifold



P301 with Oval Flange Connection (F5504) V02 5 Valve Manifold



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