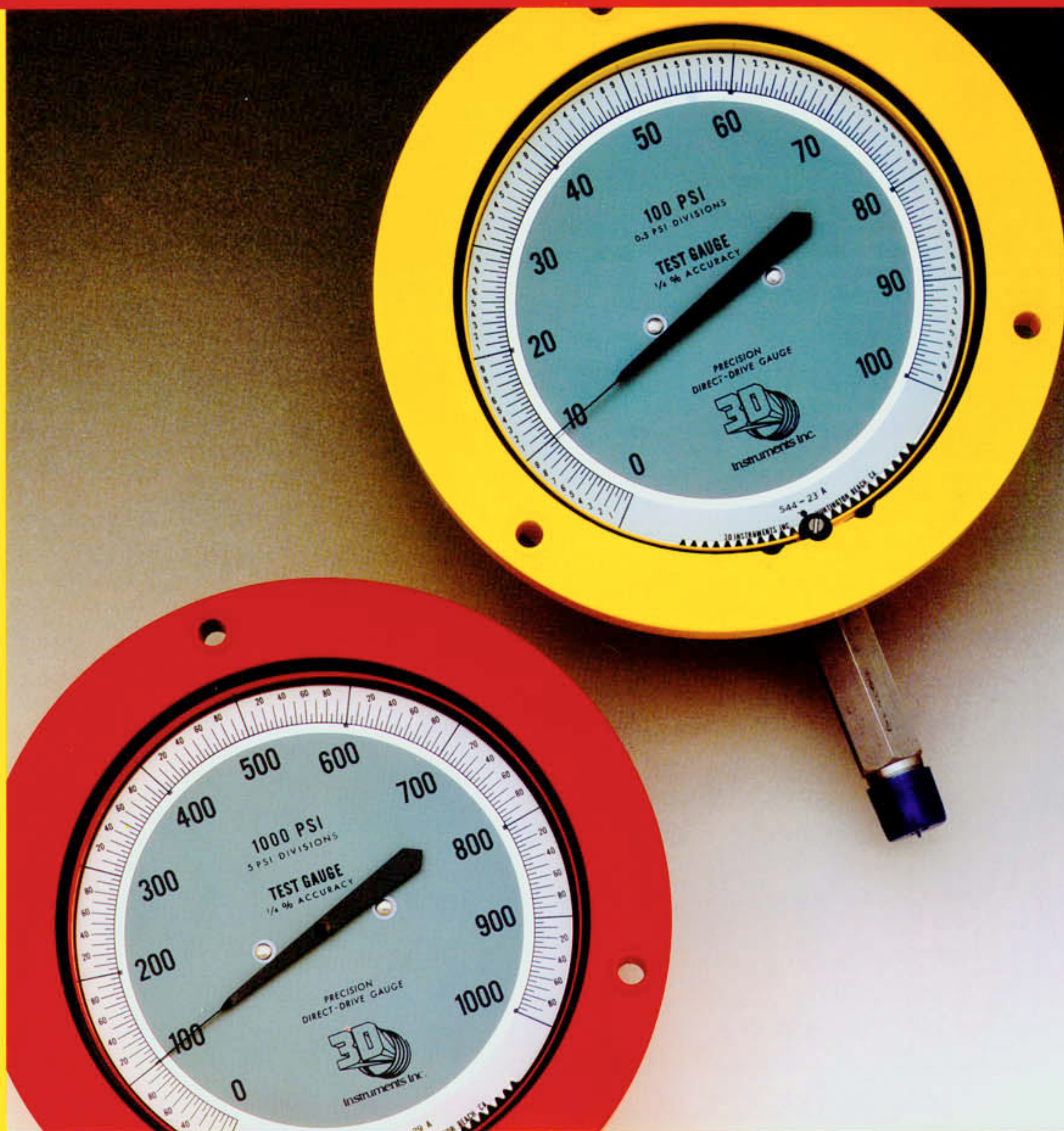




INSTRUMENTS, LLC
Direct Drive Difference

Member of
FCI
Fluid Controls Institute, Inc.



3D DIRECT DRIVE GAUGE SIX YEAR WARRANTY TO PURCHASER

3D INSTRUMENTS, LLC. warrants to the original purchaser of any 3D INSTRUMENTS, LLC. Direct Drive pressure gauge that it will be free from defects in material and workmanship under normal use and service for a period of six (6) years from the date of delivery to the purchaser. No other express warranty is given and no other affirmation of 3D INSTRUMENTS, LLC., or any of its agents, representatives or dealers, by words or actions, shall constitute a warranty or the assumption by 3D INSTRUMENTS, LLC. of any liability or obligation.

The obligation of 3D INSTRUMENTS, LLC. under this warranty is limited to repairing or replacing as the company may elect any pressure gauge that proves in the company's judgment to be defective in material or workmanship within six (6) years after the date of delivery to the original purchaser. Such defective pressure gauge will be repaired or replaced free of charge to the original purchaser, provided the gauge is returned to 3D INSTRUMENTS, LLC., 15542 CHEMICAL LANE, HUNTINGTON BEACH, CA 92649, with all transportation charges prepaid. 3D INSTRUMENTS, LLC. shall have no obligation or liability extending beyond that of repair or replacement as stated above and without limitation of the foregoing shall have no obligation or liability to the purchaser for any direct or consequential damages or loss of profits. Repaired gauges shall be warranted for the unexpired portion of the original warranty only.

This warranty shall not apply to any product or part which has been subjected to use in excess of applicable 3D INSTRUMENTS, LLC. specification, use in violation of any special conditions noted on the pressure gauge, disassembly, misuse, negligence in handling or extensive testing, nor does it apply to replacement of plugged or damaged bourdon coils resulting from chemical or media contamination.

By acceptance of the 3D INSTRUMENTS, LLC. product the purchaser agrees that (1) the foregoing express warranty of repair and replacement is the exclusive and only warranty to pass with such product or part. (2) The purchaser has not relied on the skill or judgment of 3D INSTRUMENT, LLC. in selecting any such product or part for any particular purpose or need of the purchaser. (3) THE FOREGOING EXPRESS WARRANTY IS IN PLACE AND LIEU OF ALL IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, and (4) retention or possession of the product or part by the original purchaser or its successors for six (6) years after date of purchase by the original purchaser shall be construed as conclusive evidence that all warranty obligations of 3D INSTRUMENTS, LLC. have been fulfilled and that 3D INSTRUMENTS, LLC. is thereby relieved from all warranty obligations.

DIRECT DRIVE DIFFERENCE

3D Instruments

At 3D Instruments we believe that simple is beautiful. Replacing the antiquated C shape Bourdon tube in our pressure gauges is a unique helically wound Bourdon, The Direct Drive Difference. Our Bourdon coil is coupled directly to the shaft-pointer, the only moving part.

Fewer parts, fewer problems. Regular recalibration is eliminated because there are no complex, wear-prone parts. Linearity is built-in; no span adjustment is necessary- ever And 3D accuracy is maintained throughout the useful life of the gauge, many times longer than those old fashioned designs.

The 3D Direct Drive design gives instant response while resisting pointer pulsation. Overpressure? Even 150% of full scale will not affect the accuracy of most 3D gauges. And, it takes pressures of 500% greater than dial range to result in sensing coil rupture. Even when subject to abuse, 3D Direct Drive gauges last longer

All 3D gauges use the finest materials in construction. We construct our Bourdon tube of Inconel X-750. This is a highly elastic material with excellent corrosion resistance. All other wetted parts are in 316SS. All materials are selected to be compatible with your most challenging applications.



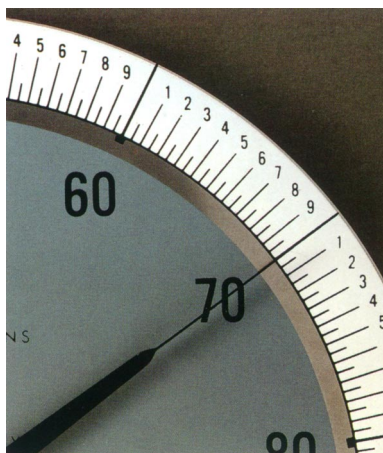
Features

- Helically Wound Bourdon Tube in Inconel X-750
- All Wetted Parts in 316SS or Inconel
- Precision Anti-Friction Sapphire Shaft Bearings
- High Impact Resistant Cyclocac Case
- Needle Edged Pointer
- Human Engineered Dial
- Adjustable Zero Set-Point
- One Moving Part

User Benefits

- No Recalibration Required
- Longer Field Service Life
- Greater Reading Accuracy
- Maintenance Free
- Safer Operation (UL Listed)*
- Corrosion Resistant

-UL Std #SA 6134(N) High Pressure Gas



3D Vs. Liquid Filled Gauges

In many severe applications C-shape pressure gauge cases are filled with silicone liquid to dampen their movements and increase service life. Beside adding cost to the gauge, the liquid fill causes other problems. These are associated with loss of liquid fill, discoloration, and added maintenance difficulties. (See ANSI B40.1 3.4.1.5)

3D applies a silicone dampener known as GAD directly to the outer layers of the coil. This GAD dampens the pointer movement in heavy vibration applications eliminating the need for liquid fill. GAD had been proven to perform better than liquid filling in tough applications.

In most instances a standard 3D TLG "Tough Little Gauge" can replace an old fashioned liquid filled gauge. Beside being less expensive, the 3D gauge will provide longer service life and much less field complications for your instrument personnel. Even against liquid fill, 3D gauges can last as much as ten times longer in severe services with pulsation or vibration. This has a dramatic effect on your cost of ownership. After all, 3D gauges are designed to work, and work for a long time no matter what the application.

SIX YEAR Warranty

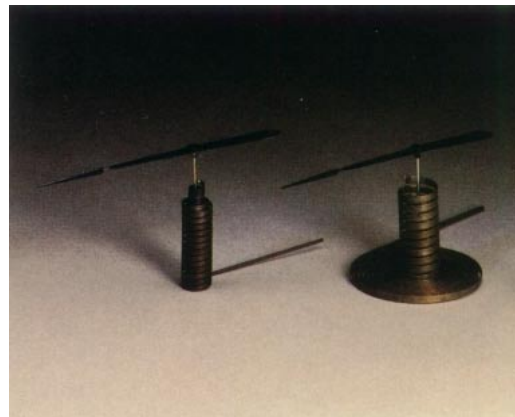
on the

3D Instruments LLC. warrants to the original purchaser of any 3D Instruments Direct Drive pressure gauge that it will be free from defects in materials and workmanship for a period of six (6) years from the date of delivery to the purchaser. A copy of the full text of the 3D Instruments six year limited warranty is available by pressing here.

The 3D Helical Bourdon Tube

The heart of the 3D Pressure Gauge is the Helically wound Inconel X-750 Bourdon Tube. Inconel was chosen because of its excellent resistance to corrosion and its elasticity. There are two types of helical Bourdon tubes: one is specifically designed for higher pressures and the other is designed for lower pressures. Each pressure range dictates subtle differences in Bourdon tube design and manufacturing method.

To the user the benefits of this painstaking high technology process are longer field life with inherent accuracy and span. As an assembly in the 3D Test or Process gauge our coil provides lower cost of ownership and easier field use, simply because our gauges do not fail or require recalibration. In testing, some 3D Gauges have been cycled over a million times with no appreciable wear or effect on accuracy. Some 3D Gauges have been in constant use for more than 15 years, replacing old fashioned gauges which had failed in the same service within weeks.



TLG PROCESS GAUGES

TEST GAUGES

Process Gauges

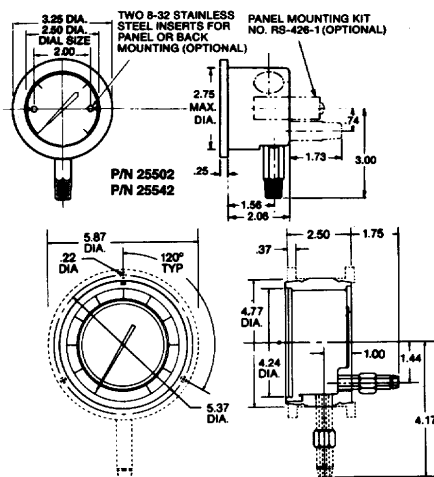
TLG "Tough Little Gauge"

3D Process Gauges are called TLG's for "Tough Little Gauge" Small wonder, our process gauges are designed specifically for the toughest conditions in your process. Typically a 3D TLG can last 4-10 times longer than a standard gauge, even if the standard gauge has been liquid filled. The "Tough Little Gauge" is available in diameters of: 2-1/2", 4-1/2", and 6". The "Dyna-Mount" 4-1/2" TLG is standard with a special swivel fitting and moveable flange. The gauge can be changed to front or back flange and bottom or back mount (except 30 psi) in the field with no more than a screwdriver Standard accuracies are 0.5% mid-scale. Pressure ranges available are from vacuum to 20,000 psi.

The 3D TLG, one "Tough Little Gauge."

Process Dial Graduation Chart (± 0.5% of span @ Midscale, 1% Overall)			
Pressure Range (psia)	Major Flange Interval (psia)	Major Graduation (psia)	Minor Graduation (psia)
0 - 30	5	1	0.2
0 - 60	5	1	0.5
0 - 100	10	5	1.0
0 - 150	10	5	1.0
0 - 160	20	10	2.0
0 - 200	20	10	2.0
0 - 300	50	10	5.0
0 - 500	50	10	5.0
0 - 600	50	10	5.0
0 - 1000	100	50	10.0
0 - 1500	100	50	10.0
0 - 2000	200	100	20.0
0 - 3000	500	100	20.0
0 - 4000	500	100	50.0
0 - 5000	1000	500	50.0
0 - 6000	1000	500	50.0
0 - 8000	1000	500	100.0
0 - 10000	1000	500	100.0
0 - 15000	1500	500	100.0
0 - 20000	2000	1000	100.0
30" Hg - 0 Vac	5	5	0.5

Dimensions



Process & Test Gauge Specifications

Pressure Ranges:

0-30 psig to 0-20,000 psig equivalent ISO and Metric Scales

Compound Ranges:

30" Hg/0-30 psig to 30" Hg/0-300 psig

Receiver Gauges:

3-15 psig or 3-27 psig linear or square root scales

Proof Pressure without calibration shift:

150% of maximum rated pressure

Burst Pressure: 500% of Scale Pressure*

Operating Media:

Any media suitable for contact with stainless steel/Inconel.

Calibration: Vertical as standard.

Accuracy:

Process - ± 0.5% of span at mid-range, ± 1.0% overall

Test - + 0.25% or + 0.50% of span.

No tapping required ⊕, includes all friction, hysteresis, and linearity variations.

Response Time:

Approximately 100ms from 0 to full scale (gas service)

Ambient Temperature:

- 65°F to + 190°F (- 54°C to + 88°C)

Service Media Temperature:

- 65°F to + 400°F (- 54°C to + 204°C)

Higher temperatures allowable depending on installation.

Life:

250,000 cycles minimum to 1,000,000,* 80% of full scale.

Dial Sizes:

Process - 2-1/2" (64mm)

4-1/2" (114mm) 6" (152mm)

Test - 2-1/2" (64mm) 4-1/2" (114mm)

6" (152mm) 8-1/2" (216mm) 12" (305mm)

Repeatability: ± 0.025% full scale

Sensitivity: ± 0.025% full scale

Materials:

Case - ABS Plastic (std) SS (opt)

Dial, Capillary tube, fittings,

screws, and rivets - Stainless Steel ⊕ ⊕

Sensing Element - Inconel X-750

Gauges conform to ANSI B40.1 1991 for "Gauges, Pressure and Vacuum. Dial Type, Elastic Element."

* Except on ultra high pressure (>10,000 psig)

** 2-1/2" Dial, Plastic

⊕ Except 30 PSI and Caisson Gauges

⊕ ⊕ 25% Accuracy Gauges are traceable to N.I.S.T.

Others available as an option,

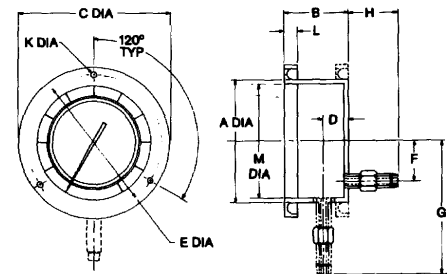
Test Gauges

The 3D Test Gauge series gives you a choice of two different degrees of accuracy to match your application. All 3D accuracy figures are real: they include all friction, error, hysteresis, and linearity variations. And 3D gauges maintain their rated accuracy over the entire life of the gauge. With no gears or wear points there is no need for recalibration.

Every dial is clearly marked for fast, accurate reading with calibrations covering a 270° arc. Parallax is corrected on the test gauges by a neutral glare-free face and a corrosion resistant stainless steel dial, incorporating a polished mirror band. Our test gauges are easy to zero with a front mounted zero adjust screw, virtually the only adjustment necessary over the life of the gauge. 3D test gauges are ideal for field calibrations where rough service conditions cause the need for frequent recalibrations in lesser gauge technologies. 3D Test Gauges are available in: 2-1/2", 4-1/2", 6", 8-1/2", and 12" diameters. Accuracies available are 0.5% and 0.25% of span*. A variety of case configurations and colors is provided so that you can match the exact pressure calibration instrument required for your service.

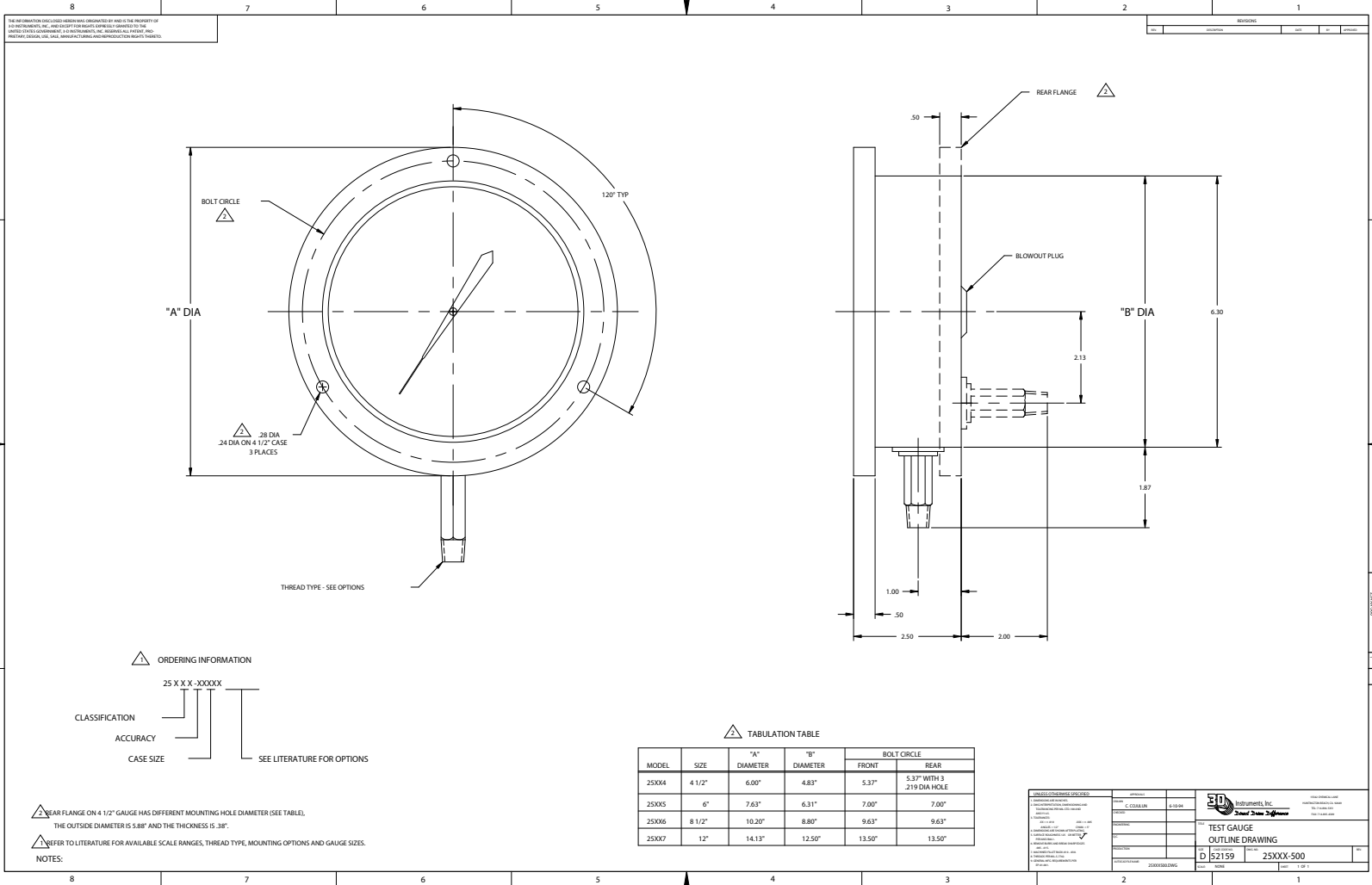
Test Dial Graduation Chart (± 0.25% and ± 0.5% of span Accuracy)					
Pressure Range (psia)	Major Flange Interval (psia)	Minor Flange Interval (psia)	Major Graduation (psia)	Inter. Graduation (psia)	Minor Graduation (psia)
0 - 30	5	1	5	1	0.1
0 - 60	10	1	10	1	0.2
0 - 100	10	1	10	1	0.5
0 - 150	10	2	10	1	0.5
0 - 200	10	2	10	2	1.0
0 - 300	50	5	50	5	1.0
0 - 500	100	10	100	10	2.0
0 - 600	100	10	100	10	2.0
0 - 1000	100	20	100	10	5.0
0 - 1500	100	20	100	10	5.0
0 - 2000	100	20	100	20	10.0
0 - 3000	500	50	500	50	10.0
0 - 4000	500	100	500	100	20.0
0 - 5000	1000	100	1000	100	20.0
0 - 6000	1000	200	1000	50	50.0
0 - 10000	1000	200	1000	100	50.0
0 - 15000	1000	200	1000	100	50.0
0 - 20000	1000	500	1000	100	100.0
30" Hg - 0 Vac	10	1	10	1	0.2

Dimensions



Test Gauge Basic Dimensions in Inches (millimeters)												
Model No.	A	B	C	D	E	F	G	H	K	L	M	Panel
255*4	4.83 (122.7)	2.50 (63.5)	6.00 (152.4)	1.00 (25.4)	5.37 (136.4)	1.54 (39.1)	4.99 (126.7)	1.65 (41.9)	0.24 (5.6)	0.50 (12.7)	4.50 (114.3)	5.00 (127.0)
255*5	6.31 (160.3)	2.50 (63.5)	7.63 (193.8)	1.00 (25.4)	7.00 (177.8)	2.13 (54.3)	5.72 (145.3)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	6.00 (152.4)	6.50 (165.1)
255*6	8.81 (223.8)	2.50 (63.5)	10.20 (259.1)	1.00 (25.4)	9.63 (244.60)	2.13 (54.3)	6.97 (177.0)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	8.50 (215.9)	9.00 (228.8)
255*7	12.50 (317.50)	2.50 (63.5)	14.13 (358.9)	1.00 (25.4)	13.50 (342.9)	2.13 (54.3)	8.82 (224.0)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	12.00 (304.8)	12.75 (323.9)

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UNLESS OTHERWISE SPECIFIED		STANDARD	STANDARD	STANDARD
1. MATERIALS AND FINISHES	2. DIMENSIONS	3. TOLERANCES	4. FINISHES	5. OTHER NOTES
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HK. CASE (IN)		6-10-94		
HL. CASE (IN)		6-10-94		
HM. CASE (IN)		6-10-94		
HN. CASE (IN)		6-10-94		
HO. CASE (IN)		6-10-94		
HP. CASE (IN)		6-10-94		
HQ. CASE (IN)		6-10-94		
HR. CASE (IN)		6-10-94		
HS. CASE (IN)		6-10-94		
HT. CASE (IN)		6-10-94		
HU. CASE (IN)		6-10-94		
HV. CASE (IN)		6-10-94		
HW. CASE (IN)		6-10-94		
HX. CASE (IN)		6-10-94		
HY. CASE (IN)		6-10-94		
HZ. CASE (IN)		6-10-94		
IA. CASE (IN)		6-10-94		
IB. CASE (IN)		6-10-94		
IC. CASE (IN)		6-10-94		
ID. CASE (IN)		6-10-94		
IE. CASE (IN)		6-10-94		
IF. CASE (IN)		6-10-94		
IG. CASE (IN)		6-10-94		
IH. CASE (IN)		6-10-94		
II. CASE (IN)		6-10-94		
IJ. CASE (IN)		6-10-94		
IK. CASE (IN)		6-10-94		
IL. CASE (IN)		6-10-94		
IM. CASE (IN)		6-10-94		
IN. CASE (IN)		6-10-94		
IO. CASE (IN)		6-10-94		
IP. CASE (IN)		6-10-94		
IQ. CASE (IN)		6-10-94		
IR. CASE (IN)		6-10-94		
IS. CASE (IN)		6-10-94		
IT. CASE (IN)		6-10-94		
IU. CASE (IN)		6-10-94		
IV. CASE (IN)		6-10-94		
IW. CASE (IN)		6-10-94		
IX. CASE (IN)		6-10-94		
IY. CASE (IN)		6-10-94		
IZ. CASE (IN)		6-10-94		
JA. CASE (IN)		6-10-94		
JB. CASE (IN)		6-10-94		
JC. CASE (IN)		6-10-94		
JD. CASE (IN)		6-10-94		
JE. CASE (IN)		6-10-94		
JF. CASE (IN)		6-10-94		
JG. CASE (IN)		6-10-94		
JH. CASE (IN)		6-10-94		
JI.				

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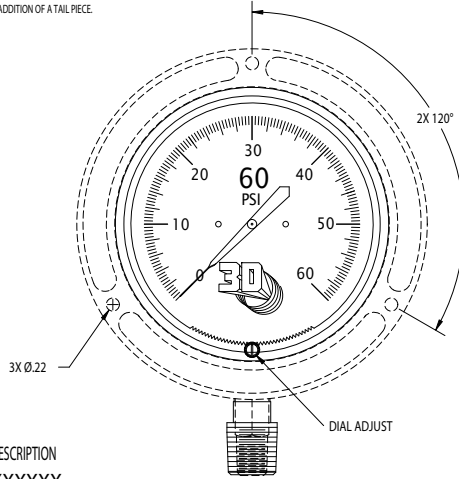
NOTES: UNLESS OTHERWISE SPECIFIED

1. CALIBRATION ACCURACY: PROCESS - CODE 0 = $\pm 5.0\%$ OF SPAN @ MID-SCALE, 1.0% OVERALL.
TEST - CODE 4 = $\pm 2.5\%$ OF 1.0% OF SPAN.
- CODE 5 = $\pm 5.0\%$ OF 1.0% OF SPAN.
2. AMBIENT TEMPERATURE RANGE: -65°F TO +190°F. MEDIA TEMPERATURE -65°F TO +400°F.
3. OPERATING MEDIA: ANY MEDIA SUITABLE FOR CONTACT WITH 316 SS AND INCONEL X-750.

DIAL - STAINLESS STEEL
CAPILLARY TUBE - STAINLESS STEEL
FITTING - STAINLESS STEEL
SCREWS - STAINLESS STEEL
SENSING ELEMENT - INCONEL X-750
CRYSTAL - ACRYLIC
GASKET - BUNA-N

4. MATERIALS: CASE - ABS PLASTIC
5. FOR 'VCO' FITTING TYPE, USE B FITTING CODE AND GCODE MODE CODE 'A' AND 'B' DIMENSIONS
ARE THE SAME AS THE 'Y' FITTING DIMENSIONS, (5/8 HEX).

6. 'W' FITTING TYPE IS THE SAME AS 'Y' WITH THE ADDITION OF A TAIL PIECE.



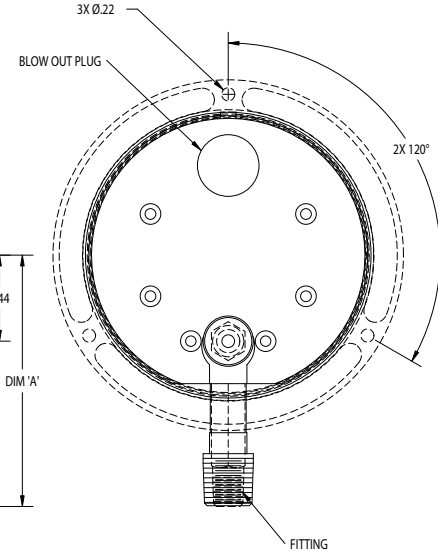
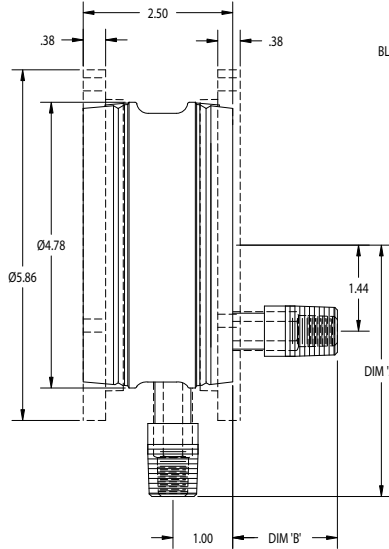
PART NUMBER DESCRIPTION

25XX4-XXXXXXX

CLASSIFICATION: 1 = COMPOUND
2 = VACUUM
5 = PRESSURE
ACCURACY: SEE NOTE 1
SIZE: 4.5 INCH

MODIFICATION CODE

PRESSURE CODES		CONNECTION		ENCLOSURE CONFIGURATION																	
CODE	PRESSURE	CODE	DESCRIPTION	HEX OR			CODE	MOUNTING			FITTING							COLOR			
NO.	(PSIG)	NO.		WRENCH FLAT	DIM 'A'	DIM 'B'	NO.	FRONT	BACK	NONE	BACK	BOTTOM	BLACK	GREEN	RED	YELLOW					
21	30	A	1/8 NPT MALE	9/16 HEX	3.85	1.40	1X	X			X	X	1	2	3	4					
22	60	B	1/4 NPT MALE	9/16 HEX	4.17	1.75	2X	X			X	X	1	2	3	4					
23	100	C	1/2 NPT MALE	5/8 FLAT	4.17	1.75	3X		X		X	X	1	2	3	4					
24	150	G	MS33649-4	3/4 HEX	4.34	1.89	4X		X		X	X	1	2	3	4					
25	200	H	MS33656-4	9/16 HEX	4.04	1.59	5X		X		X	X	1	2	3	4					
26	300	MF	MS33514-4	5/8 FLAT	3.03	.58	6X		X	X			1	2	3	4					
27	500	N	1/4 NPT MALE	9/16 HEX	4.17	1.75															
28	600	Y	ML-118997/1	9/16 HEX	3.85	1.40															
29	1000	W	[G]	9/16 HEX	3.85	1.40															
31	1500																				
32	2000																				
33	3000																				
34	4000																				
35	5000																				
36	6000																				
37	8000																				
38	10000																				
39	15000																				
41	20000																				
45	160																				



UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES.
2. LONG REPRESENTATION (NON-ISO) METRIC AND
TOLERANCES PER MIL (C) 100-0000
AND YEA.
3. TOLERANCES
A. ±.010
B. ±.015
C. ±.020
D. ±.025
E. ±.030
F. ±.040
G. ±.050
H. ±.060
I. ±.070
J. ±.080
K. ±.090
L. ±.100
M. ±.120
N. ±.150
O. ±.200
P. ±.250
Q. ±.300
R. ±.350
S. ±.400
T. ±.450
U. ±.500
V. ±.550
W. ±.600
X. ±.650
Y. ±.700
Z. ±.750
AA. ±.800
AB. ±.850
AC. ±.900
AD. ±.950
AE. ±.1000
AF. ±.1100
AG. ±.1200
AH. ±.1300
AI. ±.1400
AJ. ±.1500
AK. ±.1600
AL. ±.1700
AM. ±.1800
AN. ±.1900
AO. ±.2000
AP. ±.2100
AQ. ±.2200
AR. ±.2300
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AU. ±.2600
AV. ±.2700
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BB. ±.3300
BC. ±.3400
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BE. ±.3600
BF. ±.3700
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BH. ±.3900
BI. ±.4000
BJ. ±.4100
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BL. ±.4300
BM. ±.4400
BN. ±.4500
BO. ±.4600
BP. ±.4700
BQ. ±.4800
BR. ±.4900
BS. ±.5000
BT. ±.5100
BU. ±.5200
BV. ±.5300
BW. ±.5400
BX. ±.5500
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CA. ±.5800
CB. ±.5900
CC. ±.6000
CD. ±.6100
CE. ±.6200
CF. ±.6300
CG. ±.6400
CH. ±.6500
CI. ±.6600
CJ. ±.6700
CK. ±.6800
CL. ±.6900
CM. ±.7000
CN. ±.7100
CO. ±.7200
CP. ±.7300
CQ. ±.7400
CR. ±.7500
CS. ±.7600
CT. ±.7700
CU. ±.7800
CV. ±.7900
CW. ±.8000
CX. ±.8100
CY. ±.8200
CZ. ±.8300
DA. ±.8400
DB. ±.8500
DC. ±.8600
DD. ±.8700
DE. ±.8800
DF. ±.8900
DG. ±.9000
DH. ±.9100
DI. ±.9200
DJ. ±.9300
DK. ±.9400
DL. ±.9500
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EQ. ±.1900
EQ. ±.2000
EQ. ±.2100
EQ. ±.2200
EQ. ±.2300
EQ. ±.2400
EQ. ±.2500
EQ. ±.2600
EQ. ±.2700
EQ. ±.2800
EQ. ±.2900
EQ. ±.3000
EQ. ±.3100
EQ. ±.3200
EQ. ±.3300
EQ. ±.3400
EQ. ±.3500
EQ. ±.3600
EQ. ±.3700
EQ. ±.3800
EQ. ±.3900
EQ. ±.4000
EQ. ±.4100
EQ. ±.4200
EQ. ±.4300
EQ. ±.4400
EQ. ±.4500
EQ. ±.4600
EQ. ±.4700
EQ. ±.4800
EQ. ±.4900
EQ. ±.5000
EQ. ±.5100
EQ. ±.5200
EQ. ±.5300
EQ. ±.5400
EQ. ±.5500
EQ. ±.5600
EQ. ±.5700
EQ. ±.5800
EQ. ±.5900
EQ. ±.6000
EQ. ±.6100
EQ. ±.6200
EQ. ±.6300
EQ. ±.6400
EQ. ±.6500
EQ. ±.6600
EQ. ±.6700
EQ. ±.6800
EQ. ±.6900
EQ. ±.7000
EQ. ±.7100
EQ. ±.7200
EQ. ±.7300
EQ. ±.7400
EQ. ±.7500
EQ. ±.7600
EQ. ±.7700
EQ. ±.7800
EQ. ±.7900
EQ. ±.8000
EQ. ±.8100
EQ. ±.8200
EQ. ±.8300
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EQ. ±.8800
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EQ. ±.9200
EQ. ±.9300
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EQ. ±.9800
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EQ. ±.1000
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EQ. ±.1200
EQ. ±.1300
EQ. ±.1400
EQ. ±.1500
EQ. ±.1600
EQ. ±.1700
EQ. ±.1800
EQ. ±.1900
EQ. ±.2000
EQ. ±.2100
EQ. ±.2200
EQ. ±.2300
EQ. ±.2400
EQ. ±.2500
EQ. ±.2600
EQ. ±.2700
EQ. ±.2800
EQ. ±.2900
EQ. ±.3000
EQ. ±.3100
EQ. ±.3200
EQ. ±.3300
EQ. ±.3400
EQ. ±.3500
EQ. ±.3600
EQ. ±.3700
EQ. ±.3800
EQ. ±.3900
EQ. ±.4000
EQ. ±.4100
EQ. ±.4200
EQ. ±.4300
EQ. ±.4400
EQ. ±.4500
EQ. ±.4600
EQ. ±.4700
EQ. ±.4800
EQ. ±.4900
EQ. ±.5000
EQ. ±.5100
EQ. ±.5200
EQ. ±.5300
EQ. ±.5400
EQ. ±.5500
EQ. ±.5600
EQ. ±.5700
EQ. ±.5800
EQ. ±.5900
EQ. ±.6000
EQ. ±.6100

HOW TO ORDER

How To Order:

To obtain your part number for the type of gauge you need, select one variation under each section heading. Place a check mark immediately below the part number for each variation. When complete, write the part numbers above each check. The resulting number is your part number. (Note: The first two numbers are always 25 as indicated.) Example: 25544-311313.

Ordering Tables

Test Gauges

Industrial Process Gauges

Options & Accessories

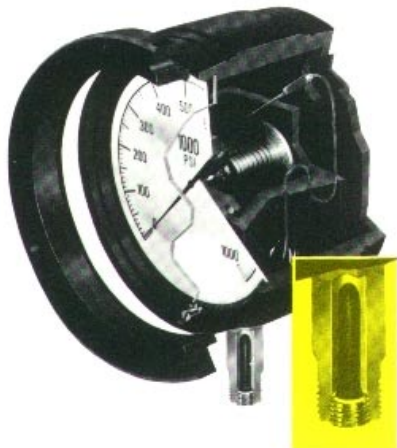
D-M Connector



D-M Snap-On Mounting Flange



Available on 25X04 Series ABS Plastic Case Gauges Only



Internal Isolator. The 3D Internal Isolator GP400 prevents the passage of any contaminating product into the bourdon coil system, eliminating plugging. The unit is a sleeve-type elastomer which is threaded into the fitting of 3D gauges after liquid filling of the coil. The GP400 can be operated to full gauge pressure from -40' to + 250°F (- 40°C to + 120' C) without deterioration of gauge accuracy, except on pressure ranges of 100 psi and under The GP400 is not suitable for gas service.

Max Pressure Pointer. A "Dead Hand" pointer is moved by the gauge indicating pointer on increasing pressure, and the "Dead Hand" pointer remains at maximum pressure when the gauge pressure returns to normal or zero. The assembly is mounted on the gauge crystal and has an external reset knob to reposition the pointer. This pointer is available on the 4-1/2, 6, 8-1/2 and 12 inch gauges. (Max pressure pointer may move when used in shock or vibration applications.)

ISO and Metric Scale	
Type	Suffix
Kilopascals / Megapascals *	ISO
BAR	ISB
Kg/cm ²	ISK
Note: for dual scale add "D" to suffix. ie; PSI & bar = ISBD. PSI typically on outer arc	

* above 1000 PSI

RS380-1 Filter. The RS380-1 Filter is **standard** equipment on all 3D gauges to prevent particles from entering the bourdon coil. Made of 300 series stainless steel for corrosion resistance, RS380-1 is easily removed for cleaning. Filters are available separately.

Custom dial faces. 3D's design and engineering department can provide special dials to customers' specifications upon request. Customized faces may show force or weight, extended ranges, special colors, corporate logo-types, or legends.

Process Dial Graduation Chart

($\pm 0.5\%$ of span @ Midscale, 1% Overall)

Pressure Range (psig)	Major Figure Interval (psig)	Major Graduation (psig)	Minor Graduation (psig)
0 – 30	5	1	0.2
0 – 60	5	1	0.5
0 – 100	10	5	1.0
0 – 150	10	5	1.0
0 – 160	20	10	2.0
0 – 200	20	10	2.0
0 – 300	50	10	2.0
0 – 500	50	10	5.0
0 – 600	50	10	5.0
0 – 1000	100	50	10.0
0 – 1500	100	50	10.0
0 – 2000	200	100	20.0
0 – 3000	500	100	20.0
0 – 4000	500	100	50.0
0 – 5000	1000	500	50.0
0 – 6000	1000	500	50.0
0 – 8000	1000	500	100.0
0 – 10000	1000	500	100.0
0 – 15000	1500	500	100.0
0 – 20000	2000	1000	100.0
30" Hg – 0 Vac	5	5	0.5

Test Dial Graduation Chart

($\pm 0.25\%$ and $\pm 0.5\%$ of span Accuracy)

Pressure Range (psig)	Major Figure Interval (psig)	Minor Figure Interval (psig)	Major Graduation (psig)	Inter. Graduation (psig)	Minor Graduation (psig)
0 – 30	5	1	5	1	0.1
0 – 60	10	1	10	1	0.2
0 – 100	10	1	10	1	0.5
0 – 150	10	2	10	1	0.5
0 – 200	10	2	10	2	1.0
0 – 300	50	5	50	5	1.0
0 – 500	100	10	100	10	2.0
0 – 600	100	10	100	10	2.0
0 – 1000	100	20	100	10	5.0
0 – 1500	100	20	100	10	5.0
0 – 2000	100	20	100	20	10.0
0 – 3000	500	50	500	50	10.0
0 – 4000	500	100	500	100	20.0
0 – 5000	1000	100	1000	100	20.0
0 – 8000	1000	200	1000	50	50.0
0 – 10000	1000	200	1000	100	50.0
0 – 15000	1000	200	1000	100	50.0
0 – 20000	1000	500	1000	100	100.0
30" Hg – 0 Vac	10	1	10	1	0.2



MATERIALS OF CONSTRUCTION FOR 3D INSTRUMENTS DIRECT DRIVE PRESSURE GAUGE

Listed below are the component parts of the 3D Direct Drive Pressure Gauge and the materials used in each part:

1. Parts wetted by the measurement media:
 - a. Fitting: 316 stainless steel (SS)
 - b. Connecting capillary: 316 SS
 - c. Joining sleeve: 316 SS
 - d. Sensing coil: Inconel X-750
 - e. Filter: 316 SS
2. Other parts in internal assembly:
 - a. Fitting bracket: 300 series stainless steel
 - b. Pointer shaft: 302 series stainless spring steel
 - c. Shaft bearings: Synthetic sapphire
 - d. Pointer: Aluminum (300 SS on 4½" Process)
 - e. Pointer hub: 316 SS
 - f. Dial support: ABS plastic
 - g. Dial retaining clip: 316 SS
 - h. Mounting plate: ABS plastic (300 SS on 2½")
 - i. Clip: (jointing shaft & coil): 300 series SS
 - j. Dial: 300 SS (ABS plastic on 2½" Process Gauge)
3. Case Parts:
 - a. Case: Cycolac Grade "T" (ABS plastic)
 - b. Zero adjust: 316 SS
 - c. Lens: gasket: Neoprene
 - d. Lens: Acrylic plastic
 - e. Retaining snap ring: 302 SS
 - f. Blowout plug: Neoprene (Mylar on 2½" and SSTL case gauges)
 - g. Fitting mounting screws: 300 series SS
 - h. Plate mounting screws: 300 series SS
 - i. Name plate: Mylar



Series 25

±.50% of span @ midscale, 1% overall accuracy

Process Gauge Ordering Instructions

Part Number Sample: **2** **5** **5** **0** **4** – **2** **3** **B** **7** **4** **XXXX**

Consult Section: ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Type of Gauge

P/N Code	Type of Gauge	Comments
1	Compound Vac. & Pressure Gauge	Available from –30" Hg to 0 to 30 PSI up to –30" Hg to 0 to 300 PSI
2	Vacuum Gauge	Only available in –30" Hg to 0 (and equiv. scales). Dial arc is 135°. Use range code 21 in section 4
5	Pressure Gauge	Available in ranges 0 to 30 PSI up to 0 to 20,000 PSI.

② Accuracy of Gauge

(All accuracies are based on total span of the selected bourdon tube range. ie: span of 100 PSI pressure gauge is 100, span of compound –30" Hg to 0 to 100 PSI is 115 PSI)

P/N Code	Accuracy	Comments
0	±.5% of span accuracy @ midscale, 1% overall	Compound ranges are ±.5% of span accuracy @ midscale, 1% overall on the pressure side. Vacuum side is 1.0% of span from 0 to –20" Hg, 2.0% of span from 21" to 30" Hg. Vacuum
7	2% Receiver Gauge	This Accuracy Used on Receiver Gauges Only

③ Size of Gauge

P/N Code	Accuracy	Comments
2	2.5" Dial Size	Black ABS Case only available Front Flange. Also available in Stainless Steel with or without Flanges
3	3.5" Dial size	Black ABS Case only available Rear Flange. Bolt Circle Diameter on Flange is 4.312"
4	4.5" Dial Size	Black or Yellow ABS Plastic Cases with DynaMount Fitting and Flange or Stainless Steel Case
5	6" Dial Size	Black ABS Plastic Cases, Black or Purple Nylon Cases for Skydrol
6	8.5" Dial Size	Black ABS Plastic Cases
7	12" Dial Size	Black ABS Plastic Cases

④ Pressure Range

P/N Code	Standard Pressure Range	"ISO" Mod Code Use "ISOD" for Dual PSI / Metric	"ISK" Mod Code Use "ISKD" for Dual PSI / Metric	"ISB" Mod code Use "ISBD" for Dual PSI / Metric
-21 Vacuum	-30" Hg to 0 Vacuum	- 100 to 0 kPa	-1 to 0 Kg/cm ² (use "CMP" Mod Code for –760 to 0 mmHg)	-1 to 0 BAR
-21 (Compound)	0 to 30 PSI (-30" Hg to 0 to 15 PSI)	0 to 200 kPa (-100 to 0 to 100 kPa)	0 to 2 Kg/cm ² (-760 mmHg to 0 to 1 Kg/cm ²)	0 to 2 BAR (-1 BAR to 0 to 1 BAR)
-48 Compound Only	-30" Hg to 0 to 30 PSI	-100 to 0 to 200 kPa	-760 mmHg to 0 to 2 Kg/cm ²	-1 to 0 to 2 BAR
-22 (Compound)	0 to 60 PSI (-30" Hg to 0 to 60 PSI)	0 to 400 kPa (-100 to 0 to 400 kPa)	0 to 4 Kg/cm ² (-760 mmHg to 0 to 4 Kg/cm ²)	0 to 4 BAR (-1 to 0 to 4 BAR)
-23 (Compound)	0 to 100 PSI (-30" Hg to 0 to 100 PSI)	0 to 700 kPa (-100 to 0 to 700 kPa)	0 to 7 Kg/cm ² (-760 mmHg to 0 to 7 Kg/cm ²)	0 to 7 BAR (-1 to 0 to 7 BAR)
-24 (Compound)	0 to 150 PSI (-30" Hg to 0 to 150 PSI)	0 to 1000 kPa (-100 to 0 to 1000 kPa)	0 to 10 Kg/cm ² (-760 mmHg to 0 to 10 Kg/cm ²)	0 to 10 BAR (-1 to 0 to 10 BAR)
-46	0 to 160 PSI			
-25 (Compound)	0 to 200 PSI (-30" Hg to 0 to 200 PSI)	0 to 1,400 kPa (-100 to 0 to 1,400 kPa)	0 to 14 Kg/cm ² (-760 mmHg to 0 to 14 Kg/cm ²)	0 to 14 BAR (-1 to 0 to 14 BAR)
-26 (Compound)	0 to 300 PSI (-30" Hg to 0 to 300 PSI)	0 to 2,000 kPa (-100 to 0 to 2,000 kPa)	0 to 21 Kg/cm ² (-760 mmHg to 0 to 21 Kg/cm ²)	0 to 21 BAR (-1 to 0 to 21 BAR)
-27	0 to 500 PSI	0 to 3,500 kPa	0 to 35 Kg/cm ²	0 to 35 BAR
-28	0 to 600 PSI	0 to 4,000 kPa	0 to 42 Kg/cm ²	0 to 42 BAR
-29	0 to 1,000 PSI	0 to 7,000 kPa	0 to 70 Kg/cm ²	0 to 70 BAR
-31	0 to 1,500 PSI	0 to 10 MPa	0 to 100 Kg/cm ²	0 to 100 BAR
-32	0 to 2,000 PSI	0 to 14 MPa	0 to 140 Kg/cm ²	0 to 140 BAR
-33	0 to 3,000 PSI	0 to 20 MPa	0 to 210 Kg/cm ²	0 to 210 BAR

Pressure Range Continued on Next Page

④ Pressure Range (Continued)

P/N Code	Standard Pressure Range	"ISO" Mod Code Use "ISOD" for Dual PSI / Metric	"ISK" Mod Code Use "ISKD" for Dual PSI / Metric	"ISB" Mod code Use "ISBD" for Dual PSI / Metric
-34	0 to 4,000 PSI	0 to 28 MPa	0 to 280 Kg/cm ²	0 to 280 BAR
-35	0 to 5,000 PSI	0 to 35 MPa	0 to 350 Kg/cm ²	0 to 350 BAR
-36	0 to 6,000 PSI	0 to 40 MPa	0 to 420 Kg/cm ²	0 to 420 BAR
-37	0 to 8,000 PSI #	0 to 56 MPa #	0 to 560 Kg/cm ² #	0 to 560 BAR #
-38	0 to 10,000 PSI #	0 to 70 MPa #	0 to 700 Kg/cm ² #	0 to 700 BAR #
-39	0 to 15,000 PSI ##	0 to 100 MPa ##	0 to 1,000 Kg/cm ² ##	0 to 1,000 BAR ##
-41	0 to 20,000 PSI ##	0 to 140 MPa ##	0 to 1,400 Kg/cm ² ##	0 to 1,400 BAR ##

= High Pressure – Pressure Accuracy 0.25% of Span Upscale, 0.50% of Span Downscale for 2554 Series Only.

= Ultra High Pressure – Pressure Accuracy 1.0% of Span Upscale, 2.0% of Span Downscale.

See Accuracy Section ② for Detailed Accuracy on Vacuum and Compound Ranges.

⑤ Fitting Size

P/N Code	Fitting Size	Comments
B	1/4" NPT Male Thread	
C	1/2" NPT Male Thread	Not available on 2.5" Dial Size with Stainless Steel Case. Not recommended for ranges above 6000 PSI.

⑥ Case Style

P/N Code	Flange / Fitting Location	Comments
1	Front Flange / Bottom Fitting	For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting
2	Front Flange / Lower Back Fitting	For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting
3	Back Flange / Bottom Fitting	Not Available on 2.5" ABS
4	Back Flange / Lower Back Fitting	Not Available on 2.5" ABS
5	No Flange / Bottom Fitting	Not Available on 2.5" ABS
6	No Flange / Lower Back Fitting	Not Available on 2.5" ABS
7	Detached Flange / Bottom Fitting	Only Available on 4.5" Black or Yellow ABS
8	Detached Flange / Lower Back Fitting	Only Available on 4.5" Black or Yellow ABS

⑦ Case Color

P/N Code	Case Color and Material	Comments
1	Black ABS Plastic	
4	Yellow ABS Plastic	Only Available on 4.5" Dial Size
5	Electro-Polished Stainless Steel	Only Available on 2.5" and 4.5" Dial Sizes
7	Purple Nylon	Only Available on 6" Dial Sizes

⑧ Options (Consult Factory for Additional Options)

P/N Code	Description of Option	Comments
ISO	Metric Scale in kPa or MPa	See Pressure Range Section for Available Scales
ISOD	Dual Scale PSI and kPa or MPa	See Pressure Range Section for Available Scales
ISK	Metric Scale in Kg/cm ²	See Pressure Range Section for Available Scales
ISKD	Dual Scale PSI and Kg/cm ²	See Pressure Range Section for Available Scales
ISB	Metric Scale in BAR	See Pressure Range Section for Available Scales
ISBD	Dual Scale PSI and BAR	See Pressure Range Section for Available Scales
GAD	Silicone Bourdon Tube Dampener	Replaces Liquid Filled Cases
GAB	Gauge Suitable for Skydrol Use	Must be ordered with Nylon or Stainless Steel Case
GCL	RS426-1 Panel Mounting Kit for 2.5" ABS	Required for Panel mounting 2.5" ABS Plastic Cases
GCK	Stainless Steel Tag Wired to Gauge Fitting	
GBH	Liquid O2 Clean per 3D Spec. RYY02-014	
GBK	Gaseous O2 Clean per 3D Spec. RYY110-102	
GBT	Laminated Glass Crystal for 4.5" Stainless Steel Case	



Series 25

0.25% and 0.50% of Span Accuracy

Test Gauge Ordering Instructions

Part Number Sample: **25** **5** **4** **4** – **23** **B** **1** **1** **XXXX**

Consult Section: **①** **②** **③** **④** **⑤** **⑥** **⑦** **⑧**

① Type of Gauge

P/N Code	Type of Gauge	Comments
1	Compound Vac. & Pressure Gauge	Available from –30" Hg to 0 to 30 PSI up to –30" Hg to 0 to 300 PSI
2	Vacuum Gauge	Only available in –30" Hg to 0 (and equiv. scales). Dial arc is 135°. Use range code 21 in section 4
5	Pressure Gauge	Available in ranges 0 to 30 PSI up to 0 to 20,000 PSI.
6	Caisson Gauge	Consult Caisson Ordering Instructions

② Accuracy of Gauge

(All accuracies are based on total span of the selected bourdon tube range. ie: span of 100 PSI pressure gauge is 100, span of compound –30" Hg to 0 to 100 PSI is 115 PSI)

P/N Code	Accuracy	Comments
4	0.25% of span	Compound ranges are 0.25% of span accuracy on the pressure side. Vacuum side is 0.5% of span from 0 to –20" Hg, 1.0% of span from 21" to 30" Hg. Vacuum, 15,000 PSI and 20,000 PSI are not available with 0.25%
5	0.50% of span	15,000 PSI range is 0.50% of span upscale accuracy, 1.0% of span downscale. 20,000 PSI range is 1.0% of span upscale accuracy, 2.0% of span downscale.

③ Size of Gauge

P/N Code	Accuracy	Comments
2	2.5" Dial Size	Black ABS Case only available Front Flange. Also available in Stainless Steel with or without Flanges
4	4.5" Dial Size	Black, Yellow, Red or Green ABS Plastic Cases, Black Nylon for Skydrol or Stainless Steel Case
5	6" Dial Size	Black, Yellow, Red or Green ABS Plastic Cases, Black or Purple Nylon Cases for Skydrol
6	8.5" Dial Size	Black, Yellow, Red or Green ABS Plastic Cases
7	12" Dial Size	Black, Yellow, Red or Green ABS Plastic Cases

④ Pressure Range

P/N Code	Standard Pressure Range	"ISO" Mod Code Use "ISOD" for Dual PSI / Metric	"ISK" Mod Code Use "ISKD" for Dual PSI / Metric	"ISB" Mod code Use "ISBD" for Dual PSI / Metric
-21 Vacuum	-30" Hg to 0 Vacuum	- 100 to 0 kPa	-1 to 0 Kg/cm ² (use "CMP" Mod Code for –760 to 0 mmHg)	-1 to 0 BAR
-21 (Compound)	0 to 30 PSI (-30" Hg to 0 to 15 PSI)	0 to 200 kPa (-100 to 0 to 100 kPa)	0 to 2 Kg/cm ² (-760 mmHg to 0 to 1 Kg/cm ²)	0 to 2 BAR (-1 BAR to 0 to 1 BAR)
-48 Compound Only	-30" Hg to 0 to 30 PSI	-100 to 0 to 200 kPa	-760 mmHg to 0 to 2 Kg/cm ²	-1 to 0 to 2 BAR
-22 (Compound)	0 to 60 PSI (-30" Hg to 0 to 60 PSI)	0 to 400 kPa (-100 to 0 to 400 kPa)	0 to 4 Kg/cm ² (-760 mmHg to 0 to 4 Kg/cm ²)	0 to 4 BAR (-1 to 0 to 4 BAR)
-23 (Compound)	0 to 100 PSI (-30" Hg to 0 to 100 PSI)	0 to 700 kPa (-100 to 0 to 700 kPa)	0 to 7 Kg/cm ² (-760 mmHg to 0 to 7 Kg/cm ²)	0 to 7 BAR (-1 to 0 to 7 BAR)
-24 (Compound)	0 to 150 PSI (-30" Hg to 0 to 150 PSI)	0 to 1000 kPa (-100 to 0 to 1000 kPa)	0 to 10 Kg/cm ² (-760 mmHg to 0 to 10 Kg/cm ²)	0 to 10 BAR (-1 to 0 to 10 BAR)
-46	0 to 160 PSI			
-25 (Compound)	0 to 200 PSI (-30" Hg to 0 to 200 PSI)	0 to 1,400 kPa (-100 to 0 to 1,400 kPa)	0 to 14 Kg/cm ² (-760 mmHg to 0 to 14 Kg/cm ²)	0 to 14 BAR (-1 to 0 to 14 BAR)
-26 (Compound)	0 to 300 PSI (-30" Hg to 0 to 300 PSI)	0 to 2,000 kPa (-100 to 0 to 2,000 kPa)	0 to 21 Kg/cm ² (-760 mmHg to 0 to 21 Kg/cm ²)	0 to 21 BAR (-1 to 0 to 21 BAR)
-27	0 to 500 PSI	0 to 3,500 kPa	0 to 35 Kg/cm ²	0 to 35 BAR
-28	0 to 600 PSI	0 to 4,000 kPa	0 to 42 Kg/cm ²	0 to 42 BAR
-29	0 to 1,000 PSI	0 to 7,000 kPa	0 to 70 Kg/cm ²	0 to 70 BAR
-31	0 to 1,500 PSI	0 to 10 MPa	0 to 100 Kg/cm ²	0 to 100 BAR
-32	0 to 2,000 PSI	0 to 14 MPa	0 to 140 Kg/cm ²	0 to 140 BAR
-33	0 to 3,000 PSI	0 to 20 MPa	0 to 210 Kg/cm ²	0 to 210 BAR

Pressure Range Continued on Next Page

④ Pressure Range (Continued)

P/N Code	Standard Pressure Range	"ISO" Mod Code Use "ISOD" for Dual PSI / Metric	"ISK" Mod Code Use "ISKD" for Dual PSI / Metric	"ISB" Mod code Use "ISBD" for Dual PSI / Metric
-34	0 to 4,000 PSI	0 to 28 MPa	0 to 280 Kg/cm ²	0 to 280 BAR
-35	0 to 5,000 PSI	0 to 35 MPa	0 to 350 Kg/cm ²	0 to 350 BAR
-36	0 to 6,000 PSI	0 to 40 MPa	0 to 420 Kg/cm ²	0 to 420 BAR
-37	0 to 8,000 PSI #	0 to 56 MPa #	0 to 560 Kg/cm ² #	0 to 560 BAR #
-38	0 to 10,000 PSI #	0 to 70 MPa #	0 to 700 Kg/cm ² #	0 to 700 BAR #
-39	0 to 15,000 PSI ##	0 to 100 MPa ##	0 to 1,000 Kg/cm ² ##	0 to 1,000 BAR ##
-41	0 to 20,000 PSI ##	0 to 140 MPa ##	0 to 1,400 Kg/cm ² ##	0 to 1,400 BAR ##

= High Pressure – Pressure Accuracy 0.25% of Span Upscale, 0.50% of Span Downscale for 2554 Series Only.

= Ultra High Pressure – 15,000 PSI Pressure Accuracy 0.50% of Span Upscale, 1.0% of Span Downscale. Available on 2555 Series Only.
 20,000 PSI Pressure Accuracy 1.0% of Span Upscale, 2.0% of Span Downscale. Available on 2555 Series Only.

See Accuracy Section ② for Detailed Accuracy on Vacuum and Compound Ranges.

⑤ Fitting Size

TRANSCAT

[Visit us at Transcat.com!](http://www.transcat.com)
 35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

P/N Code	Fitting Size	Comments
B	1/4" NPT Male Thread	
C	1/2" NPT Male Thread	Not available on 2.5" Dial Size with Stainless Steel Case. Not recommended for ranges above 6000 PSI.

⑥ Case Style

P/N Code	Flange / Fitting Location	Comments
1	Front Flange / Bottom Fitting	For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting
2	Front Flange / Lower Back Fitting	For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting
3	Back Flange / Bottom Fitting	Not Available on 2.5" ABS
4	Back Flange / Lower Back Fitting	Not Available on 2.5" ABS
5	No Flange / Bottom Fitting	Not Available on 2.5" ABS
6	No Flange / Lower Back Fitting	Not Available on 2.5" ABS
7	Not Available on Test Gauges	
8	Not Available on Test Gauges	

⑦ Case Color

P/N Code	Case Color and Material	Comments
1	Black ABS Plastic	
2	Green ABS Plastic	Not Available on 2.5" Dial Size
3	Red ABS Plastic	Not Available on 2.5" Dial Size
4	Yellow ABS Plastic	Not Available on 2.5" Dial Size
5	Electro-Polished Stainless Steel	Only Available on 2.5" and 4.5" Dial Sizes
7	Purple Nylon	Only Available on 6" Dial Sizes
8	Black Nylon	Only Available on 4.5" and 6" Dial Sizes

⑧ Options (Consult Factory for Additional Options)

P/N Code	Description of Option	Comments
ISO	Metric Scale in kPa or MPa	See Pressure Range Section for Available Scales
ISOD	Dual Scale PSI and kPa or MPa	See Pressure Range Section for Available Scales
ISK	Metric Scale in Kg/cm ²	See Pressure Range Section for Available Scales
ISKD	Dual Scale PSI and Kg/cm ²	See Pressure Range Section for Available Scales
ISB	Metric Scale in BAR	See Pressure Range Section for Available Scales
ISBD	Dual Scale PSI and BAR	See Pressure Range Section for Available Scales
GAD	Silicone Bourdon Tube Dampener	Replaces Liquid Filled Cases May Effect Accuracy on Low Pressure Ranges
GAB	Gauge Suitable for Skydrol Use	Must be ordered with Nylon or Stainless Steel Case
GCL	RS426-1 Panel Mounting Kit for 2.5" ABS	Required for Panel mounting 2.5" ABS Plastic Cases
GCK	Stainless Steel Tag Wired to Gauge Fitting	
GBH	Liquid O2 Clean per 3D Spec. RYY02-014	
GBK	Gaseous O2 Clean per 3D Spec. RYY110-102	
GBT	Laminated Glass Crystal for 4.5" Stainless Steel Case	