

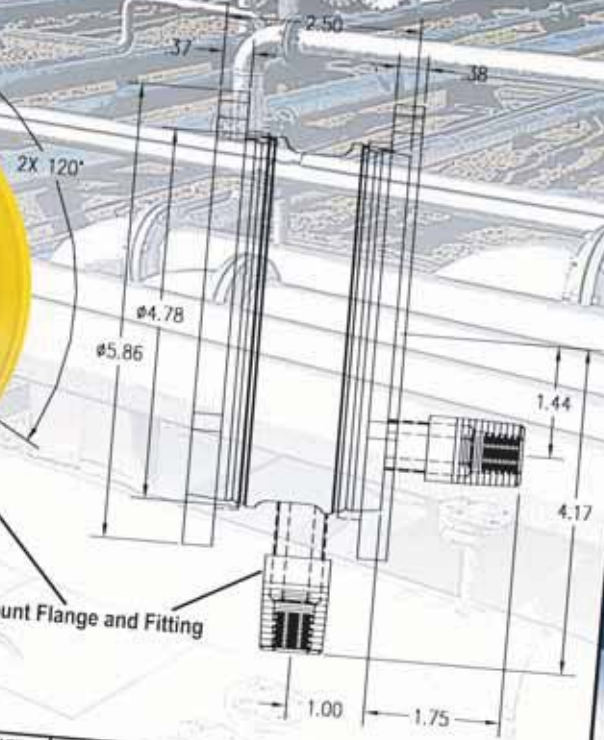
INSTRUMENTS, LLC
 Direct Drive Difference
SIERRA PRECISION

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| REVISIONS | | |
|-----------|-------------|------|
| REV. | DESCRIPTION | DATE |
| | | |



DIAL ADJUST
 Dyna-Mount Flange and Fitting



- UNLESS OTHERWISE NOTED
1. DIMENSIONS ARE IN INCHES.
 2. DIM. INTERPRETATION, DIMENSIONING AND TOLERANCING PER ASME-Y14.5-1994 AND ASME-Y14.5.
 3. TOLERANCES:
 .XX = ± .010 .XXX = ± .006
 .X = ± .005 .XXX = ± .006
 .X = ± .005 .XXX = ± .006
 4. DIMENSIONS ARE SHOWN AFTER PLATING.
 5. SURFACE ROUGHNESS 63/ OR BETTER PER AMS 584.1.
 6. REMOVE BURRS AND BREAK SHARP EDGES .005 ± .015.
 7. MACHINED FLLET RADIUS .010 ± .030.
 8. THREADS PER MIL-S-7742.
 9. GENERAL MFG. REQUIREMENTS PER CP-01-001.

| APPROVALS | | DATE |
|-------------|--|------|
| DRAWN | | |
| CHECKED | | |
| ENGINEERING | | |
| PRODUCTION | | |
| G.A. | | |



TITLE
Accu-Drive Pressure Gauges

SIZE **A** CAGE CODE NO. **52159**

Designed from the ground up to handle your severe applications

REV.

Accu-Drive Pressure Gauges

Direct Drive Concept

At 3D Instruments, we believe that simple is beautiful!! Replacing the antiquated "C-shaped" bourdon tube in our Accu-Drive gauges is a unique helically wound bourdon... this is what we call the Direct Drive Difference. Our bourdon is coupled directly to the shaft pointer, which is the only moving part. Fewer moving parts translates to fewer gauge problems!! Regular recalibration is eliminated because there are no complex, wear-prone parts... like linkages and sectors. Linearity is built-in; no span adjustment is necessary – ever! Accuracy is maintained throughout the life of the gauge, which is much longer than those "old fashioned" gauges. Overpressure is not an issue... even 150% of span will not result in a calibration shift and the robust bourdon tube will withstand spikes of 500% of span without bursting. All 3D gauges use the finest materials of construction. The bourdon tube is made of Inconel, which is a highly elastic material with excellent corrosion resistance. All other wetted parts are in 316SS to meet the rigors of your most challenging applications.

Features

- Helically Wound Inconel Bourdon Tube
- Field adjustable fitting and flange on 4 1/2" ABS case
- All Wetted Components are 316 SS or Inconel
- Precision Anti-Friction Sapphire Shaft Bearings
- Shock Resistant and UV Stabilized ABS and Valox cases
- Human Engineered Dial
- Adjustable Zero Set-Point
- One Moving Part

User Benefits

- Lower "Cost of Ownership"
- No Recalibration Required
- Longer Field Service Life
- Greater Reading Accuracy
- Maintenance-Free Design
- Safer Operation

Direct Drive Vs. Liquid Filled Gauges

In many severe applications "C-shaped" pressure gauge cases are filled with a silicone liquid to dampen their movements and increase service life. Besides adding cost to the gauge, the liquid fill causes other problems... loss of accuracy, discoloration and added maintenance difficulties. 3D applies a high viscosity silicone dampener, known as GAD, directly to the outer layers of the bourdon tube. This GAD dampens the pointer movement in severe vibration and/or pulsation based applications thereby eliminating the need for liquid fill. In most instances a standard 3D Accu-Drive Gauge will easily replace a traditional liquid filled gauge. The 3D gauge will provide longer service life and lower field maintenance costs. When compared to liquid filled gauges, 3D gauges can last as much as 10x longer in severe vibration and pulsation service. Using 3D Accu-Drive Gauges will have a dramatically favorable impact on your gauge **cost of ownership!!**

Series-25 Dyna-Mount Field Adjustable Fitting/Flange



SIX YEAR WARRANTY

On the
Direct Drive Difference

3D Instruments LLC. warrants to the original purchaser of any 3D Instruments Accu-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 online or upon request.

3D Helical Bourdon Tube Technology

The heart of the 3D Accu-Drive gauge is the helically wound Inconel bourdon tube. Inconel was chosen due to its excellent resistance to corrosion and its elasticity. There are two versions of helical bourdon tube: one being designed specifically for high pressures and the other designed for lower pressures. Each pressure range has subtle differences in bourdon tube design and manufacture. 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 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 Accu-Drive gauges have been cycled over a million times with no appreciable wear or effect on accuracy. Some 3D gauges have been in constant service for more than 25 years, replacing traditional gauges which had failed in the same service within weeks.



PRODUCT DESCRIPTIONS / SPECIFICATIONS

Process Gauges

TLG "Tough Little Gauges"

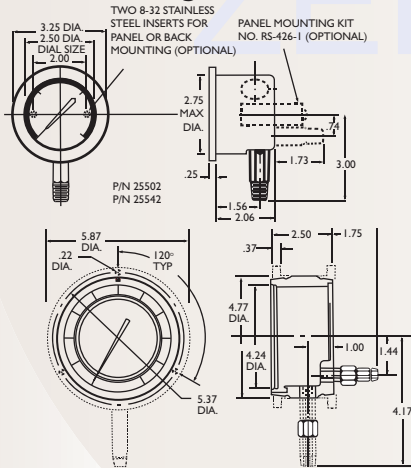
3D Process Gauges are called TLG's for "Tough Little Gauge". Small wonder, our process gauges are designed specifically for the toughest conditions in your process. Typically a 3D TLG can last 4-10 times longer than a standard gauge, even if the standard gauge has been liquid filled. The "Tough Little Gauge" features a robust case of engineered plastic either ABS (Series 25) or waterproof Valox (Series 24) and is available in diameters of: 2 1/2", 4 1/2", and 6" with 8 1/2" and 12" available on request. 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 ranges lower than 60 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.

Process Dial Graduation Chart (Accuracy: 0.5% full scale @ midscale)

| Pressure Range (psig) | Major Figure Interval (psig) | Mid Graduation (psig) | Minor Graduation* (psig) |
|-----------------------|------------------------------|-----------------------|--------------------------|
| 30" Hg-0 Vac | 5 | 5 | 0.5 |
| 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 |
| 0-1,000 | 100 | 50 | 10.0 |
| 0-1,500 | 100 | 50 | 10.0 |
| 0-2,000 | 200 | 100 | 20.0 |
| 0-3,000 | 500 | 100 | 20.0 |
| 0-4,000 | 500 | 100 | 50.0 |
| 0-5,000 | 1,000 | 500 | 50.0 |
| 0-6,000 | 1,000 | 500 | 50.0 |
| 0-8,000 | 1,000 | 500 | 100.0 |
| 0-10,000 | 1,000 | 500 | 100.0 |
| 0-15,000 | 1,500 | 500 | 100.0 |
| 0-20,000 | 2,000 | 1,000 | 100.0 |

*2.5" Dial size may have fewer divisions

Series-25 Gauge Dimensions



P/N 25504
P/N 25554
P/N 25544

Panel cut out
4.9" to 5"

Process & Test Gauges 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*

All Accu-Drive Gauges can withstand full vacuum without calibration shift.

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, linearity variations

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

Bourdon Tube Volumes: 100 psi = 0.05 cu in (approximate) 10,000 psi = 0.01 cu in (approximate) + 5% from zero to full scale

Dial Sizes:

Process – 2 1/2" (64 mm)

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

Test – 2 1/2" (64 mm) 4 1/2" (114 mm)

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

(305 mm)

Repeatability: ±0.025% full scale

Sensitivity: ±0.025% full scale

Materials of Construction:

Case – Series-24: Valox; Series-25: ABS

Dial, Capillary tube, fittings, screws, and rivets – Stainless Steel**

Sensing Material – Inconel

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

*Except on ultra high pressure => 10,000 psi

**2 1/2" dial, plastic

†Except 30 PSI and Caisson gauges

‡Test gauges are traceable to N.I.S.T.

Other available as an option

**Low temperature on undamped gauges only

Series-25 Test Gauge Dimensions in Inches (Millimeters)

| Model No. | A | B | C | D | E | F | G | H | K | L | M | Panel |
|-----------|------------------|----------------|------------------|----------------|------------------|----------------|-----------------|----------------|---------------|----------------|------------------|------------------|
| 255-5 | 6.31 (160.3) | 2.50 (63.5) | 7.63 (193.8) | 1.00 (25.4) | 7.00 (177.8) | 2.13 (54.1) | 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 (244.6) | 2.13 (54.1) | 6.97 (177.0) | 1.65 (41.9) | 0.28 (7.1) | 0.50 (12.7) | 8.50 (215.6) | 9.00 (228.8) |
| 255-7 | 12.50 (317.5) | 2.50 (63.5) | 14.13 (358.9) | 1.00 (25.4) | 13.50 (342.9) | 2.13 (54.1) | 8.82 (224.0) | 1.65 (41.9) | 0.28 (7.1) | 0.50 (12.7) | 12.00 (304.8) | 12.75 (323.9) |

Test Gauges

The 3D Accu-Drive 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.

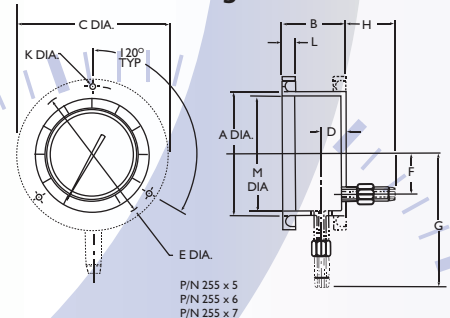
Every dial is clearly marked for fast, accurate reading with calibrations covering a 270° arc. Parallax is corrected on the test gauges by a neutral glare-free face and a corrosion resistant stainless steel dial, incorporating a polished mirror band. Our test gauges are easy to zero with a front mounted 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 (Accuracy: 0.25% full scale)

| Pressure Range (psig) | Major Figure Interval (psig) | Minor Figure Interval (psig) | Major Grad. (psig) | Inter Grad. (psig) | Minor Grad.* (psig) |
|-----------------------|------------------------------|------------------------------|--------------------|--------------------|---------------------|
| 30" Hg-0 Vac | 5 | 2 | 10 | 1 | 0.25 |
| 0-30 | 10 | 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 |
| 0-1,000 | 100 | 20 | 100 | 10 | 5.0 |
| 0-1,500 | 100 | 20 | 100 | 10 | 5.0 |
| 0-2,000 | 100 | 20 | 100 | 20 | 10.0 |
| 0-3,000 | 500 | 50 | 500 | 50 | 10.0 |
| 0-4,000 | 500 | 100 | 500 | 100 | 20.0 |
| 0-5,000 | 1,000 | 100 | 1,000 | 100 | 20.0 |
| 0-6,000 | 1,000 | 100 | 1,000 | 100 | 20.0 |
| 0-8,000 | 1,000 | 200 | 1,000 | 200 | 50.0 |
| 0-10,000 | 1,000 | 200 | 1,000 | 200 | 50.0 |
| 0-15,000 | 1,000 | 250 | 1,000 | 250 | 100.0 |
| 0-20,000 | 2,000 | 500 | 2,000 | 500 | 100.0 |

*2.5" Dial size may have fewer divisions

Series-25 Gauge Dimensions



3D - The Direct Drive Difference

www.3Dinstruments.com

"Dyna-Mount" snap-on flange available only on the 4 1/2" Series-25 gauges. Fits front or back for panel or flush mounting. Can be removed for local mounting.

Tough, rugged ABS plastic case

Rear-mounted blow-out plug

Corrosion-resistant construction

Inconel bourdon tube

Accurate, easy-to-read dial

Precision sapphire bearings

Simple external Zero adjust

"Dyna-Mount" convertible fitting can be rotated from bottom to back in the field on 4.5" industrial gauges

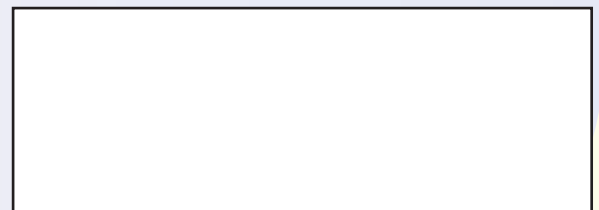
(4 1/2" Series-25 Gauge Pictured)



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SIERRA PRECISION

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Your Local Distributor



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Issue: 03/08

PRODUCT ORDERING INFORMATION

Process Gauges

| Part No. | Case Type (Enter One) | | ACCOMMODATION (Enter One) | | SCALE SIZE (Enter One) | | SCALE CODE & RANGE (See 000 RETRO) (Enter One) | | CONNECTION SIZE & TYPE (Enter One) | | SERIES OF THE GAUGE FLANGE & FITTING LOCATION & CASE COLOR (Enter One) | | | | | | | | | | | | Specs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------------------|----|---------------------------|----|------------------------|----|------------------------------------------------|----|------------------------------------|----|------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | | | | | | | | | | | | | | | | | | | | | | | |

Test Gauges

| Part No. | Case Type (Enter One) | | ACCOMMODATION (Enter One) | | SCALE SIZE (Enter One) | | SCALE CODE & RANGE (See 000 RETRO) (Enter One) | | CONNECTION SIZE & TYPE (Enter One) | | SERIES OF THE GAUGE FLANGE & FITTING LOCATION & CASE COLOR (Enter One) | | | | | | | | | | | | Specs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------------------|----|---------------------------|----|------------------------|----|------------------------------------------------|----|------------------------------------|----|------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 |

How To Order:

To obtain your part number for the type of gauges you need, select on variation under each column heading. Place a check mark immediately below the part number for each variation. When complete, write the part number above each check. The resulting number is your part number. (Note: The first two numbers are always 24 or 25 as indicated.) Example: 25544-31B13. For ISO and Metric scales, add suffix to the end of number

| ISO and Metric Scale | |
|---------------------------|--------|
| Type | Suffix |
| kilopascals/ megapascals* | ISO |
| BAR | ISB |
| kg/cm ² | ISK |

Note: for dual scale add 'D' to suffix, i.e. psi & bar = ISBD. PSI are typically on outer arc.

* Above 1000 PSI

Other Direct Drive Difference Pressure Gauges

| STAINLESS STEEL | SANITARY | REFRIGERATION | RECEIVER |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> "Direct Drive" technology - 6 year warranty! 300 series SS case - 2 1/2" and 4 1/2" dial sizes Pressure ranges to 20,000 psi Optional mounting flanges | <ul style="list-style-type: none"> "Direct Drive" technology - 6 year warranty! 1 1/2" or 2" 316L SS Ludish Tri-Clamp steel 300 Series SS case - 2 1/2" and 4 1/2" dial sizes 1% of full scale or better accuracy for many ranges; compound available | <ul style="list-style-type: none"> "Direct Drive" technology - 6 year warranty! ABS, Valox Turret and SS cases available Field adjustable fitting on 4 1/2" ABS & Valox versions Various refrigerant versions | <ul style="list-style-type: none"> "Direct Drive" technology - 6 year warranty! 2 1/2", 4 1/2" and 6" dial sizes 3-15 psi and 3-27 psi versions Many dial scale units are available Field adjustable fitting on 4 1/2" version |



Process - 4 1/2" Series 24 Turret Case



Process - 4 1/2" Series 25 ABS Case



Test - 4 1/2" Series 25 ABS Case

Max Pressure Pointer: A "Dead Hand" pointer

Is moved by the gauges indicating pointer on increasing pressure, and the "Dead Hand" pointer remains at maximum pressure when the gauges 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). Add "GAV" to the end of the part number.

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 and should be replaced regularly if media has particles.

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

Note: Quotations for custom models and modifications are available on request. Connections: Consult factory for connection sizes and types not listed in chart. Enclosures: Consult factory for cases suitable for liquid or equivalent service. Note: All accuracy statements are based on total span of selected bourdon tube. *GAV: Station Drumcase will add .25% of span to the specified gauge accuracy.

*2 1/2" dial size - Front flange only, bottom or back fitting connection on black ABS plastic case. For panel mount order optional RS380-1. Stainless steel case is available with all flange and fitting options (except detached flange). # Ultra high pressure - Pressure accuracy 1.0% up scale, 2.0% down scale. **1/2" NPT fitting - Not recommended for ranges above 6,000 psi.

*Compound gauge - Pressure accuracy 0.5% and 0.25% Vacuum accuracy 0.5% to 20" Hg., 0.6% 21" Hg. Example P/N: 25104-48B11 = 30" Hg. 0-30 PSIG Example P/N: 25104-48B11 = 30" Hg., 1% 21" to 30" Hg. Example P/N: 25204-21B11 = 30" Hg. 0 vacuum

*2 1/2" dial size - Front flange only, bottom or back fitting connection on black ABS plastic case. For panel mount order optional RS380-1. Stainless steel case is available with all flange and fitting options. # High pressure - Pressure accuracy 0.25% up scale, 0.50% down scale. Series 2554 only **1/2" NPT fitting - Not recommended for ranges above 6,000 psi.

Ultra high pressure - 15,000 psi pressure accuracy 0.5% up scale, 1.0% down scale 20,000 psi pressure accuracy 1.0% up scale, 2.0% down scale (Not available on 2554 series) **1/2" NPT fitting - Not recommended for ranges above 6,000 psi.