



GAMMON TECHNICAL PRODUCTS, INC.
 P.O. BOX 400 - 2300 HWY 34
 MANASQUAN, N.J. 08736

PHONE 732-223-4600
 FAX 732-223-5778
 EMAIL gammontech@gammontech.com

**GAMMON
 GAUGE**
 -
**BULLETIN 25
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GAMMON GAUGE™

NOW MADE IN 6 VARIATIONS

Direct Reading Differential Pressure Gauge

Designed and Manufactured in the U.S.A.



ORIGINAL
 MODEL
 GTP-534



PEAK-HOLD*
 With Push Button
 TEST VALVE
 GTP-534-PB-PH



PUSH BUTTON
 3-WAY TEST VALVE
 GTP-534 PB



PUSH BUTTON
 IN FRONT
 GTP-534 PBF



GAMMON GAUGE
 CONTROL SYSTEM
 GTP-8980



ROTARY 3-WAY
 TEST VALVE
 GTP-534V

The PEAK-HOLD feature registers the highest reading, locking the piston so the operator can see maximum differential pressure for the most recent fueling operation. Turning the large knob releases the piston so that it can return to zero.

*Patent applied for

UNIQUE FEATURES

Peak-Hold reading – The maximum differential pressure that is measured during an operation automatically locks the piston so that the operator will have that information without actually having watched the gauge at the time. After the reading has been seen, the operator releases the piston by turning a knob. It is usually impossible for the operator to see the gauge while refueling an aircraft so the highest differential pressure reading is rarely seen, just as in the case of an unmanned facility such as a pipeline or hydrant system. This feature eliminates that problem.

Push Button Test Valve – Hold the button inward to relieve pressure under the piston. System pressure will force the piston down so operator can observe motion. Erratic movement of the piston indicates contamination of piston and glass tube, requiring cleaning.

Note: This test releases about 30 mL of fuel that can be collected in a cup or directed to recovery systems.

Pressure Relief Feature – Incorporated in all Push Button models is a pressure relief valve set at 300 psi to protect the gauge from excessive pressure if isolation valves have been closed.

COMMON FEATURES OF ALL MODELS OF THE GAMMON GAUGE

Read differential pressure directly at top of piston

Accurate within ½ psi at system pressures to 300 psi

No subtraction calculation required

All models available in aluminum or stainless steel

Positive and Negative Surge Pressures will not influence calibration

Multiple calibrations: Front face – psi and kPa
 Back face – Bar and kg/cm²

Every glass tube tested to 1200 psi

Rugged construction: Suitable for vehicle or stationary use

Built-in Gauge Protection Filter, 10 microns

Maximum Operating Pressure: 300 psi

Fittings: ¼" NPT female, ¼" BSP available

Temperature Range: Standard Viton Seals: -30° to +160°F; -34° to +71°C
 Low temperature seals: -90°F/-68°C

Ultraviolet Light Protection: film cover prevents rays from degrading fuel in the glass tube.

Two scale ranges available, 0-15 and 0-30 psi. Any 0-15 psi gauge can be converted to 0-30 psi by ordering kit GTP-9104 containing a new spring and a new nameplate (scale).

System pressure gauges available to mount at top of all models

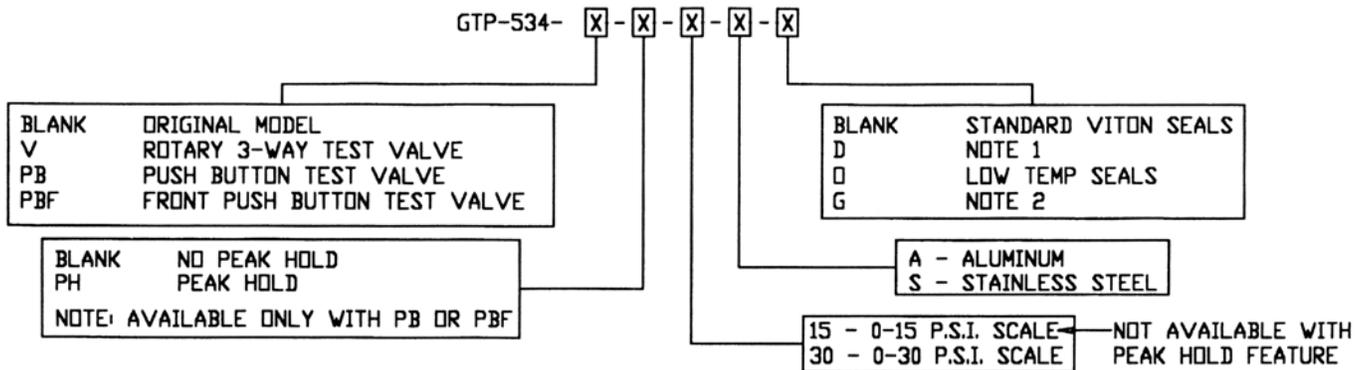
To add a 2" face diameter gauge, order:

GTP-686A for 0-60 psi

GTP-686C for 0-160 psi

GTP-686B for 0-100 psi

GTP-686D for 0-300 psi



EXAMPLES:

1. GTP-534-30-A-Q IS AN ORIGINAL MODEL WITH 0-30 P.S.I. SCALE, ALUMINUM CONSTRUCTION AND LOW TEMPERATURE SEALS.
2. GTP-534-PB-15-S IS A MODEL WITH PUSH BUTTON TEST VALVE WITH , 0-15 P.S.I. SCALE, STAINLESS STEEL CONSTRUCTION AND STANDARD VITON SEALS.
3. GTP-534-PBF-PH-30-A-Q IS A MODEL WITH PUSH BUTTON AT THE FRONT, PEAK HOLD FEATURE, 0-30 P.S.I. SCALE, ALUMINUM CONSTRUCTION AND LOW TEMPERATURE SEALS.

NOTE 1 - A SUFFIX D PROVIDES 2 SELECTOR VALVES, ONE AT EACH CONNECTION. THE PORTS ON EACH VALVE ARE LABELED A AND B SO THAT THE GAUGE CAN BE CONNECTED TO MEASURE DIFFERENTIAL PRESSURE ALTERNATELY ON TWO DIFFERENT FILTERS OR ON A FILTER HAVING TWO STAGES.

NOTE 2 - SAME AS NOTE 1 BUT SUFFIX G DENOTES 1/4 B.S.P THREADS

CALIBRATION TESTING

To meet API-1581 and 1583, you must have a 3-way test valve. Our 3-way valve GTP-2305 and the Push Button Gammon Gauges meet this requirement and are used to check calibration as well as to check free movement of the piston.

1. Establish flow in the system. The gauge should indicate a pressure drop.
2. Push the test button. The piston should travel to the bottom of the scale.
3. Release the button and stop flow in the system. The piston should return to zero.

If the piston returns to zero, you have not only calibrated the gauge, you have checked it for free movement across it's entire range. If the piston moves slowly or erratically, the filter (located in the top of the gauge) may be clogged and need replacement. This calibration technique is accepted by all major oil companies, airlines and military services worldwide. Gammon Gauges have been in service in virtually every major airport in the world for as long as 30 years and we have never heard of, or seen a single gauge go out of calibration. Occasionally a piston will stick after many years in service, but hand cleaning with "Scotch Brite" plastic abrasive will make it as good as new. (Do not use sandpaper or steel wool). Replace o-rings and reassemble.

CONVERSION OF EXISTING GAMMON GAUGES

An existing Gammon Gauge can be converted to have the PEAK-HOLD and the Push Button Test Valve by replacing the lower flange of the gauge. Order as follows:

<u>Standard GTP-534</u>	<u>add Push Button</u>	<u>add Push Button and Peak Hold</u>
Aluminum	GTP-552-8PB	GTP-552-40
Aluminum with Front Push Button	GTP-552-8PBF	GTP-552-40F
Stainless Steel	GTP-552-9PB	GTP-552-40SS
Stainless Steel with Front Push Button	GTP-552-9PBF	GTP-552-40FS

On Gammon Gauges without a Push Button, a GTP-2305 3-way ball valve can be installed.

NEW GAMMON GAUGE™ CONTROL SYSTEMS

PROTECT AGAINST FILTER ELEMENT BURSTING ADD A DIFFERENTIAL PRESSURE SWITCH TO THE GAMMON GAUGE Sound Alarm – Stop Flow, Turn on Second Filter

If differential pressure suddenly increases or a facility is operated without personnel monitoring the differential pressure, filter element failure can occur. This new switch is unique. It adds differential pressure control at a low cost using a non-powered proximity switch. This simple double-sealed switch is ideal for use in PLC (miniature computer) and relay controlled systems. The connection box is rated NEMA 4X.

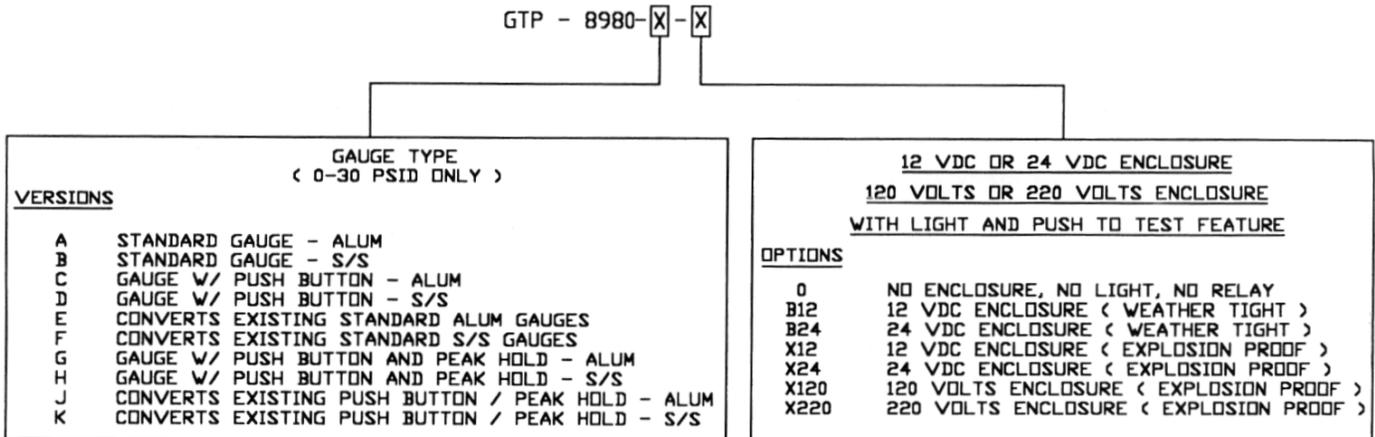
Control options are also available if you don't plan to use an external control. We have weather tight and explosion proof versions.

We strongly recommend a 3-way test valve for properly testing the Gammon Gauge and Proximity Switch and/or system.

Conversion? Any Gammon Gauge can be converted to include the new proximity switch.



HOW TO ORDER THE CORRECT PART NUMBER



EXAMPLE

GTP-8980-C-B12 is a differential pressure gauge as follows:

Push Button Gauge

30 psi scale

Aluminum material

12 VDC enclosure (weather tight) with light and push to test feature