Micro and Ultra Force™ (U.0175/U.0325) Load Cells

With a DADCO Micro Load Cell or small **Ultra Force™** Load Cell, you can check the contact force of DADCO's **Micro 45™**/SL.16, **Micro 90™**, **Micro 180™**, **Micro 250™**, U.0175 and U.0325 Nitrogen Gas Springs and quickly determine if the gas springs are charged to the desired force. To check the internal pressure of DADCO's larger gas springs use a DADCO Standard Load Cell or a DADCO Super Compact Load Cell.

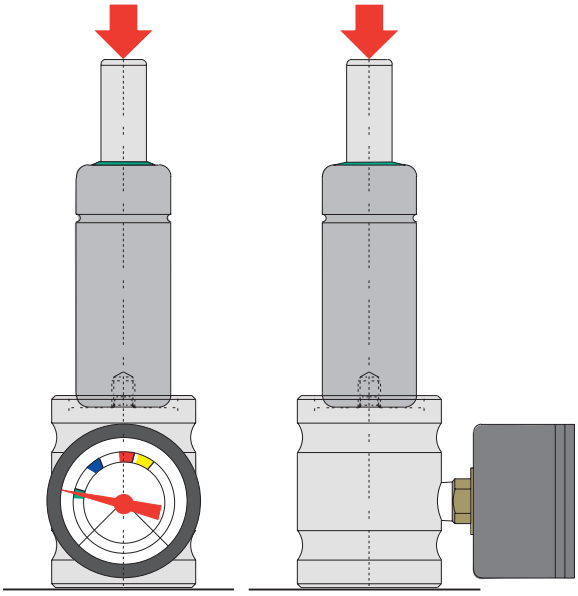
Operating Instructions

1. Select the appropriate DADCO Micro Load Cell or **Ultra Force™** Load Cell. Using the improper load cell will cause damage to the load cell.

2. Place the Micro Gas Spring or **Ultra Force™** Gas Spring on top of the appropriate load cell (Fig. 1).

3. Place both the load cell and gas spring beneath a Micro Test Stand-125 *(MTS-125)*, an Arbor press or other press.

4. **Apply the load to the gas spring, depressing the gas spring rod only 2 mm** (longer stroking may damage the load cell) and read the gauge on the front of the load cell. The gauge reflects the contact force of the spring. Use the color-coding to identify the force requirements for Micro Gas Spring models (the reading should not exceed the end of the yellow region).



Front and side view of a green **Micro 180™** Micro Gas Spring in testing position on top of the C.180 load cell.

Fig. 1

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Rebuild (Gauge Replacement) Instructions

Order the appropriate replacement gauge. For questions on which gauge to order reference DADCO's Gauge Bulletin #B00128D.

1. Remove the Flush Plug *(G-109)* and set aside for reassembly (Fig. 1).
2. Empty the oil out of the body and wipe with a lint-free cloth.
3. Unthread the old gauge and discard.
4. Apply Teflon Tape to the new gauge thread. Ensure that the tape does not cover the access hole.
5. Thread the gauge onto the body (lettering should be right-side-up).
6. Fill the body with oil up to the base of the flush plug, note the fill line (Fig. 2).
7. Install the Flush Plug *(G-109)*, and watch for needle movement on the gauge, if movement occurs, stop and remove a small quantity of oil with an eye dropper. Repeat this step until flush plug is installed with no needle movement.
8. Test the new gauge by using it on the appropriate spring with a known pressure, see Operating Instructions.

Micro 45™/SL.16
Part #DPG-3M45

Micro 90™
Part #DPG-3M90

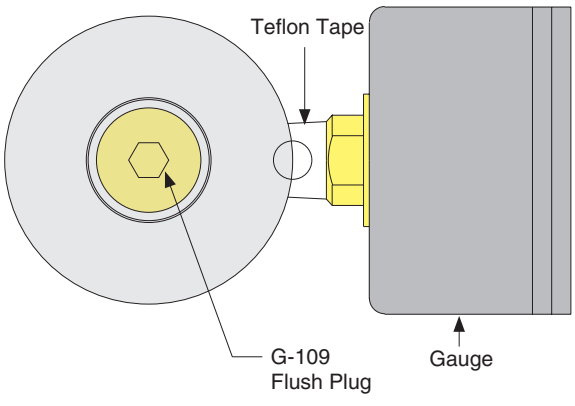
Micro 180™
Part #DPG-3M180

Micro 250™
Part #DPG-3M250

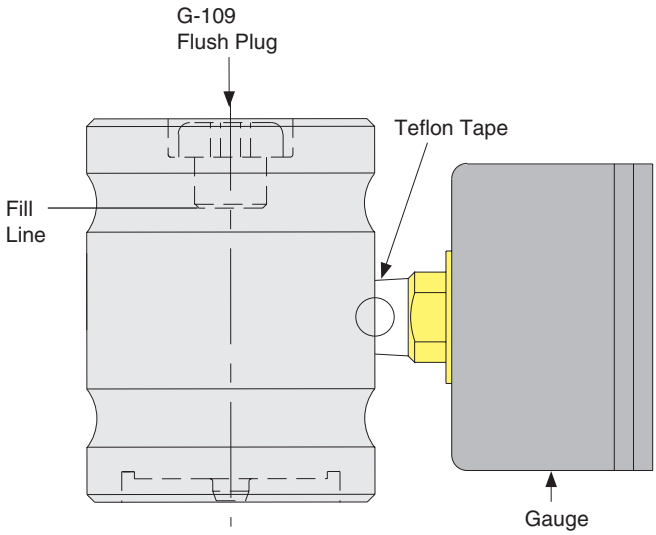
U.0175
Part #DPG-3U175

U.0325
Part #DPG-3U325

Figures



View of Base
Fig. 1



Side View
Fig. 2

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