

## Ashcroft PowerFlex™ Movement



- *Only Ashcroft® pressure gauges offer this superior movement technology.*
- *Test proven and field proven to last longer!*
- *More shock and vibration resistant than conventional movement products*

The Ashcroft® PowerFlex™ movement is only available in the wide variety of Ashcroft pressure gauges. The PowerFlex movement is designed to resist the effects of shock, vibration and pulsation, thereby increasing the life of the pressure gauge. This patented movement is suspended between two springs – the Bourdon tube above and the linkwire below. This unique suspended construction isolates the gauge movement from the socket, which is the normal travel path for shock and vibration. Therefore, the destructive forces that are transmitted to the precision moving parts are greatly reduced.

A conventional geared movement and bracket assembly consists of 13 parts. The Ashcroft PowerFlex movement design eliminates the need for nine of these components. The elimination of this excess weight reduces the wear on bearing and gearing surfaces.

The benefits of this unique movement design are superior performance and extended gauge life, especially in applications where vibration and pulsation are constant factors.

Ashcroft pressure gauges with the patented PowerFlex movement have been laboratory tested and most importantly, field tested and proven for over 35 years.

### All Gauges Are Not Created Equal...

#### Conventional Movement

This movement design was introduced in 1924 and has been the industry standard since that time. The movement pictured here is typical of those used by most manufacturers of commercial pressure gauges.



#### Ashcroft PowerFlex™ Movement

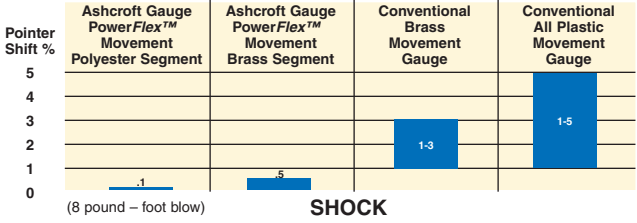
The Ashcroft patented PowerFlex movement addresses performance problems common to conventional movement design. The unique suspended construction isolates the gauge movement from the socket, which is the normal travel path for shock and vibration. The bourdon tube and the linkwire cushion the movement under stress conditions, reducing wear on the silicone-lubricated segment and pinion surfaces. The result of this design is superior gauge performance and extended gauge life.



## PowerFlex™ Movement

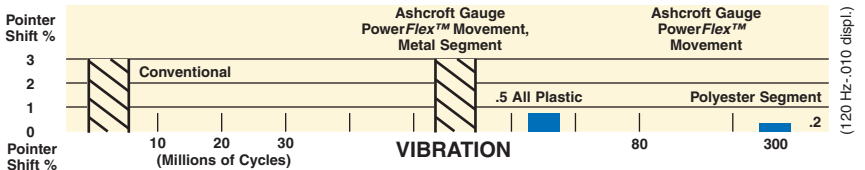
### PROVEN PERFORMANCE

#### PRESSURE GAUGE ENDURANCE TESTS\*

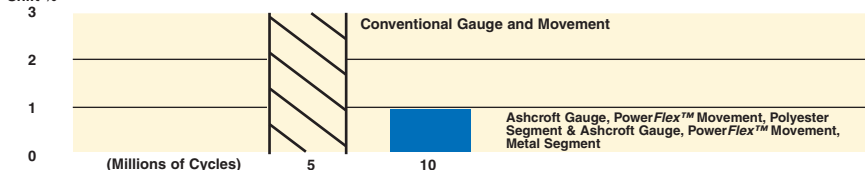


**SHOCK**

**SHOCK:** 10 to 50 times more resistant.  
**VIBRATION:** Can withstand over 10 times more vibration.  
**PULSATION:** After ten million cycles, less than 1% pointer shift.  
(Conventional movements at 1/2 the cycles have 3 times amount of wear.)



**VIBRATION**



**PULSATION**

These tests offer conclusive proof that the Ashcroft PowerFlex™ movement significantly reduces the wear and tear of gauge internals. These gauges better resist shock, vibration and pulsation, and have an increased gauge life. The benefits to you, the customer, mean:

- Savings in the cost of a replacement gauge.
- Savings in the labor cost involved in replacing the gauge.
- Savings in reduced downtime.
- Savings in reducing the chance of damaged or lost equipment due to a non-functioning or an incorrect reading gauge.

Ashcroft pressure gauges have earned a reputation for durability and accuracy over the past 125 years. Ashcroft gauge superior performance is standard – just what you would expect from an Ashcroft product.

\*Tests were based on 2" lower connect gauges.

