INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR ASHCROFT® PULSATION DAMPENER TYPE 1106

ASHCROFT®

Ashcroft Pulsation Dampener

Ashcroft Pulsation Dampeners are a small, compact and effective throttling device.

They are ideal for use with pressure gauges subject to severe pressure pulsations and rapid fluctuations, such as on reciprocating pumps.

Dampeners are good for all pressures up to 5000 psi and for any pressure medium such as air, water, oil or steam.

They eliminate excessive or harmful pointer vibration, save wear on the gauge movement, save time in reading the true mean pressure, help keep the gauge in calibration and generally prolong gauge life.

Adjustable and Self-Cleaning

The principle of the Ashcroft Pulsation Dampener is simple, yet ingenious. A small plunger oscillates freely in a cylindrical hole in the bushing. The clearance between the plunger and hole is just sufficient to give the proper throttling action for certain conditions. The free movement of the plunger makes the device self-cleaning.

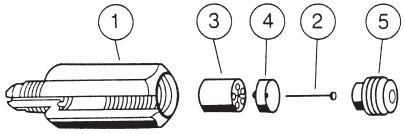
Since no throttling device is effective under all conditions, (such as scope and rapidity of pressure fluctuations and viscosity of pressure medium), five different size holes are provided numbered 1 to 5, in the bushing. To change plunger position remove set screw from body with 5⁄32 allen wrench and remove parts (2), (3) and (4).

The plunger may easily be transferred from one hole to another, depending upon the degree of dampening required. All holes are sealed off except the one in use, by means of the sealing disc. Number 1 hole, having the smallest diameter and therefore with the least clearance between the plunger and hole, has the most throttling effect. Reinstall parts (2), (3) and (4) into body as shown and tighten set screw. ¼″ size made in brass or AISI 300 series stainless steel; ½″ size only made in AISI 300 series stainless steel.

Dampeners can be used vertically or horizontally.

ASSEMBLY PARTS

1. BODY
2. PLUNGER
3. BUSHING
4. SEALING DISC
5. SET SCREW



TYPICAL PLUNGER LOCATION

PROCESS	PLUNGER SETTING
Oil service above 225SSU	4
Gasoline and fresh water below 225SSU	3
Gases	2

Note: The above plunger locations are approximate and will most nearly conform to general operating requirements of a dampener and gauge combination when used on the above fluids. It is understood, however, that variations in temperature, type fluid and pressure may affect the viscosity of process material. The design of the dampener is such that it may readily be interchanged or reset by relocating the pin to achieve the desired degree of dampening.