

# PNEUMATIC CONSOLIDATION APPARATUS STC-3F

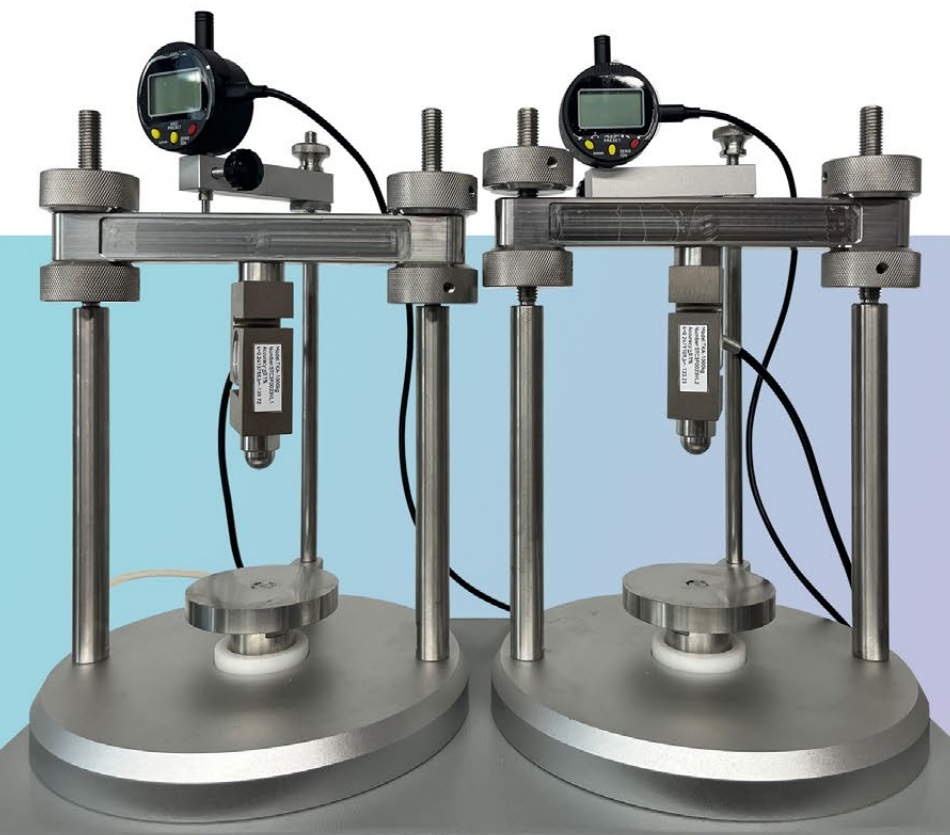
**STANDARD:** ASTM D2435, ASTM D4546, AASHTO T216

The pneumatic consolidation apparatus STC-3F is a pneumatic load frame used for stress-controlled consolidation testing. It applies loads instantaneously and to maintain any set load, regardless of sample compression occurring within the loading interval. It is compact and easy-to-use, its small footprint saves valuable lab counter space.



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## FEATURE

- It adopts double-acting cylinder with electromagnetic reversing valve, can move in both directions, and realizes stress servo closed-loop control through force sensor.
- Equipped with a 2-channel independent air pressure controller. The two test positions are independently controlled.
- The two sets of digital displacement sensors can be powered by button batteries or by the acquisition system. LCD display can display in and mm units. Connect to the built-in acquisition system to measure the axial displacement change in real time.
- The host shell is made of all-steel, with a powder-sprayed surface, and the frame is made of stainless steel, the side wall of the consolidation cell container is made of transparent plexiglass.
- The software can automatically obtain soil compression coefficient  $a_v$ , rebound modulus  $E_s$ , consolidation coefficient  $C_v$ , initial consolidation pressure  $P_c$  and other consolidation test data through computer control of the equipment. Through the data processing function, time square root curve, time logarithm curve,  $e-p$  curve,  $e-lgp$  curve,  $CV-P$  ( $T_{90}$ ) curve,  $CV-P$  ( $T_{50}$ ) curve,  $H-P$  curve, etc. can be obtained.

## TECHNICAL SPECIFICATIONS

Axial load	0-10kN
Force sensor	0-10kN, accuracy $\pm 0.1\%F.S.$ , 2 sets
Specimen size	$\varnothing 50\text{mm} \times H.20\text{mm}$
Air pressure control range	0.001MPa-0.9MPa
Display	LCD screen, resolution 240*128
Data acquisition	Built-in multi-channel 16-bit AD data acquisition system
Displacement sensor	0-12.7mm, resolution 0.01mm