

## Powders: Flowability Testers

The Flowability Tester BEP2 has been specifically designed to address the specifications in and comments raised by the Ph. Eur. and USP on Powder Flow.

The Flowability Tester BEP2 from Copley provides a range of options for testing pharmaceutical powders including three of the four methods quoted in the Pharmacopoeias – flow through an orifice, angle of repose and shear cell – in a single, cost effective unit.



### BEP2 with Cylinder Attachment

Comprising a stainless-steel cylinder measuring 76 mm long x 57 mm and a capacity of 200 mL, each attachment comes complete with 20 interchangeable stainless-steel disks each with a precision drilled hole between 4 mm and 36 mm.

The cylinder attachment can be used in two different ways:

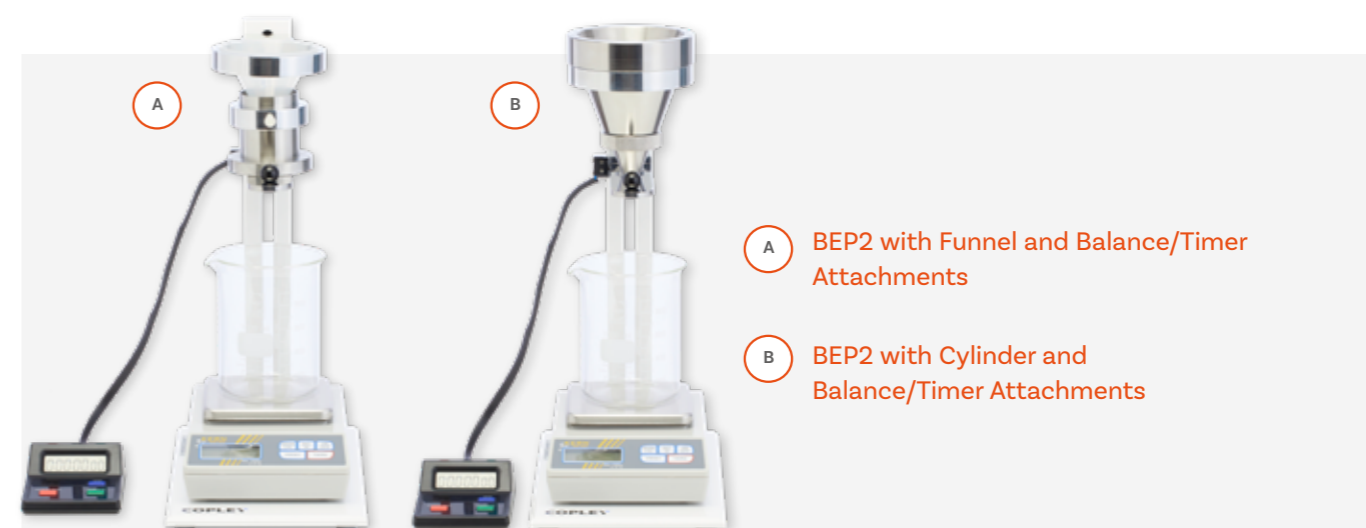
- i. For quantitative flowability tests based on mass vs time
- ii. To determine the intrinsic flowability of a powder via a flowability index based on comparative measurements.



### BEP2 with Funnel Attachment

The stainless-steel flow funnel is designed to simulate flow in a hopper or other similar production situation.

Supplied with 10 mm, 15 mm and 25 mm aperture quick-change nozzles it is manufactured from pharmaceutical grade 316 stainless steel. Testing is carried out with an easy-to-use shutter.



**A** BEP2 with Funnel and Balance/Timer Attachments

**B** BEP2 with Cylinder and Balance/Timer Attachments

Remove the hassle of a stopwatch by adding our balance and timer attachment to the shutter mechanism to simplify and streamline mass vs time tests including:

- |  |  |
|--|--|
| <b>a)</b> Flow time of a predetermined sample weight | <b>c)</b> Weight of a sample in a predetermined time |
| <b>b)</b> Flow time of a predetermined sample volume | <b>d)</b> Time against sample weight (weight/time).  |



### BEP2 with Funnel and Shear Cell Attachments

The Copley cylindrical shear cell attachment is ideal for determining flow properties based on the bulk density and shear strength of fine-grained powders and bulk solids.

Providing important information on a given material's behaviour in bins, hoppers, feeders and other handling equipment, the Copley shear cell enables precise control of test parameters for a wide range of flowability measurements.

### BEP2 with Funnel and Angle of Repose Attachments

Providing a simple method for assessing the friction characteristics of powders, the Copley angle of repose attachment is ideal for predicting manufacturing issues associated with resistance to movement between particles.

Comprises a 100 mm diameter circular test platform together with a digital gauge. Powder heights of up to 300mm can be easily read from the clear gauge display. Dividing this value by 50 calculates the angle of repose.

