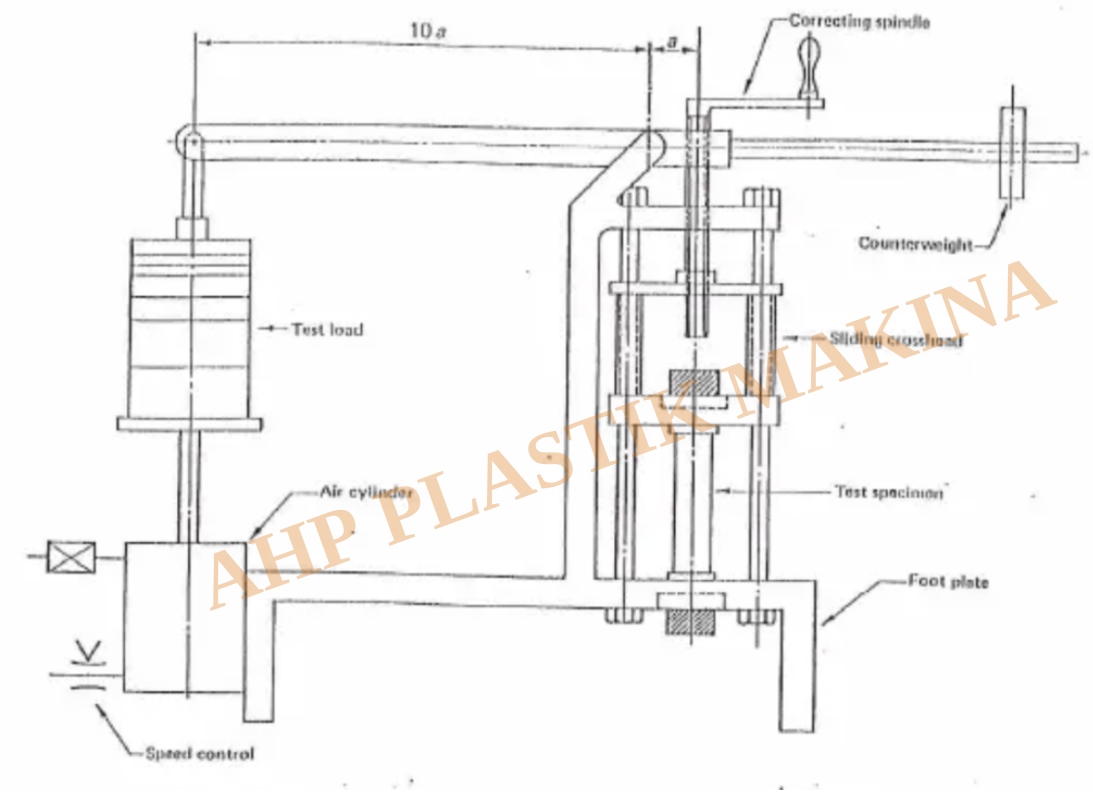
ISO 3501 – Assembled Joints Between Fittings and Polyethylene Pressure Pipes – Resistance for Pull Out – Testing Equipment

Description

Apparatus



Tensometer capable of holding a constant force or alternatively, a test frame like the above picture. Including pneumatic cylinder, dead weights, and grip mechanism.

Sample piece will have at least 300mm of pipe on both sides of the fitting to be tested.

The force for testing will be calculated as below:

$$K = 1{,}5 \times \sigma_t \times \frac{\pi}{4}(d_e^2 - d^2)$$

where

σ_t is the permissible induced stress for the considered polyethylene pipe;

d_e is the nominal outside diameter of the pipe;

d is the internal diameter of the pipe.

The test temperature shall be 20 ± 2 °C.

Constant Load Creep Tester

- According to ISO 3501
- Number of stations as per customer request (Basic is one station)
- Force display (as an option on a computer or digital display)
- Lever mechanism for adjusting the force
- Pneumatic cylinder for holding the dead weight during assembly of sample
- Sample size range as per customer request
- Applying a constant load to the sample piece
- Fine adjustment of the load using sliding mechanism
- Computer and software is as option
- The basic model has only one station, including a digital force display
- Maximum force in basic model is up to 20 Kg
- The load cell in the basic model is 50 Kg
- A digital timer is included for the alarming function

Category

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