Qtec

Extrusion rate measuring device EXRA.02

Version 2.0 02.05.2023 Qt/Ro

#### 1. Force unit

1.1. Extrusion force: for standard tests F = 1250 N

The ejection force is generated by a mass that moves freely in the ejection direction.

1.2. Extrusion punch traverse speed:  $v = 0 \dots 35$  mm/s. The maximum traverse speed

of the extrusion is 35 mm/s

1.3. Pre-press time: adjustable  $(0.5 \dots 10 \pm 0.01)$  s

1.4. Extrusion time: adjustable (1 ...  $30 \pm 0.01$ ) s

The extrusion force and extrusion time can be set via the operating terminal.

The default setting for the standard test is an extrusion force of 1250 N and an extrusion time of 10 seconds.

## 2. Extrusion device:

## 2.1. Cartridge tube

To ensure low and constant friction ratios of the cartridges being tested, a defined inner diameter is required for the cartridge sleeve, which limits the expansion of the cartridge casing during the pressing process.

Inner diameter of the cartridge holder: D = 50.65 mm

#### 2.2. Standard extrusion nozzle

The standard extrusion nozzle determines the shear of the product during the extrusion process.

The geometry is designed as a hollow cylinder.

Dimensions: d = 3 mm H6 (-0.000/+0.006)

L = 10 mm (-0.000/+0.050)

Inlet/outlet: sharp-edged Cylinder surface: Ra < 0.8

Material: stainless steel 1.4301

## 3. dimensions

W (width) x D (depth) x H (height) = 645 mm x 425 mm x 1346 mm Mass approx. 230 kg

# 4. connection/interfaces

Interfaces: Ethernet (RJ45), USB

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