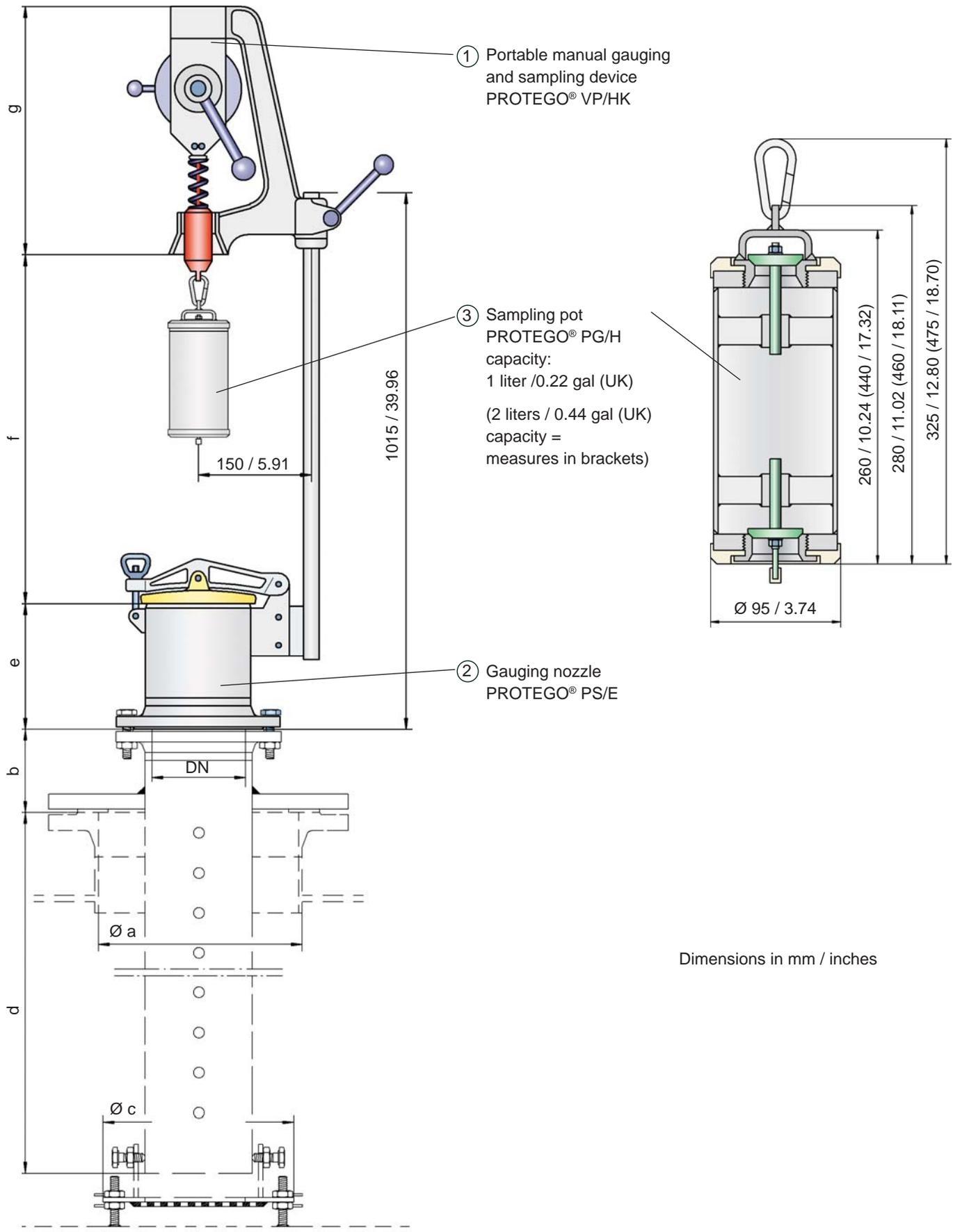


Gauging and Sampling Device

with accessories

PROTEGO® VP/HK with PS/E and PG/H



Function and Description

The PROTEGO® gauging and sampling assembly consists of the manual gauging and sampling device PROTEGO® VP/HK (1), the gauging nozzle PROTEGO® PS/E (2), the gauging pipe PROTEGO® PR/0, the gauge plate PROTEGO® PT/S and the sampling pot PG/H (3). This assembly serves for gauging (determination of the liquid level) and sampling in horizontal or vertical aboveground tanks which store non-flammable or – if equipped appropriately – flammable liquids, this device may also be used for storage tanks approved by customs.

The portable gauging and sampling device PROTEGO® VP/HK is attached by a clamp to the fixing rod of the gauging nozzle. The millimeter-scale measuring tape – black anodized – is calibrated by customs.

The gauging pipe PROTEGO® PR/0 is made of an insert-pipe with holes. The slip-on flange is included in the shipment and has to be welded on during on-site assembly.

The gauging nozzle with hinged cover and clip-lock PROTEGO® PS/E is attached to the counter-flange of the gauging and sampling pipe. The locking nozzle has the fixing rod attached for connecting the gauging and sampling device PROTEGO® VP/HK.

The sampling constructed from stainless steel with conductive plastic caps pot PROTEGO® PG/H consists of housing with metallic sealing valve discs and snap-hook. Specify the required capacity (1 l or 2 l / 0.22 gal (UK) or 0.44 gal (UK)).

Design Types and Specifications

The assembly can be ordered either as complete unit or in individual devices. Please specify the nominal diameters DN for gauging nozzle and gauging pipe.

- 1) Manual gauging and sampling device VP/HK including
- 2) Gauging nozzle PS/E, DN (mm or inches)
- 3) Gauging pipe PR/0, DN (mm or inches)

Gauge plate PT/S

Sampling pot PG/H

Table 1: Dimensions Dimensions in mm / inches

| DN | a | b | c | e | f | g |
|----------|---------------|---------------|----------------|----------------|----------------|----------------|
| 100 / 4" | 150 / 5.91 | 150 / 5.91 | 305 / 12.01 | 300 / 11.81 | 640 / 25.20 | 280 / 11.02 |
| 150 / 6" | 200 / 7.87 | 150 / 5.91 | 375 / 14.76 | 300 / 11.81 | 640 / 25.20 | 280 / 11.02 |

Measure d must be given with the order

Table 2: Material selection for VP/HK

| | |
|---------------------|--------------------------|
| Measuring tape | Stainless Steel |
| Lowering weight | Stainless Steel |
| Crank handle | Aluminium |
| Frame | Aluminium |
| Gauging nozzle PS/E | Steel or Stainless Steel |
| Gauging pipe PR/0 | Steel or Stainless Steel |
| Gauging plate PT/S | Steel or Stainless Steel |
| Sampling pot PG/H | Stainless Steel |

Selection and Design

The materials of the tank and storage medium determine the basic materials to be selected.

Necessary Data for Specification

Specify the **tank dimensions** for the lengths of tape and gauging pipe PROTEGO® PR/0.

Specify the required capacity for the sampling pot PROTEGO® PG/H (1 l or 2 l / 0.22 gal (UK) or 0.44 gal (UK)).

Application Example

