

### The iVapps System – General information

The iVapps PORTAL (body) houses the stainless steel VALVE or SMART cartridges. Manufactured with flanges according to ASME B16.10., that are recognisable to water industry professionals, the PORTAL is available in two materials: Ductile Iron with a 350 microns WRAS approved epoxy coating or Stainless Steel.

### PORTAL

The PORTAL (body) is used in the same way as any other valve body, in that it houses the valve plug used to create a control or isolation point. The iVapps PORTAL also houses the SMART cartridge option which gathers data from the pipeline's flow and relays it to iVapps' proprietary dashboard or the end users' own data delivery system.

### Benefits

- It can accommodate either the VALVE or SMART Cartridge (not at the same time)
- It can be used as a plug valve for isolation purposes when using the VALVE cartridge.
- It can be used to measure different parameters in the pipeline such as flow rate, pressure, temperature etc, by pairing it with SMART Cartridge.
- Available in 4" (100 mm) and 6" (150mm)



### Principal of Operation

The PORTAL is installed in pipelines with its functionality depending on which cartridge is installed. To create a control or isolation point, the VALVE cartridge is fitted. It has a moulded EPDM Plug to cut off the flow in the pipeline. This type of assembly acts a standard linear plug valve. For data collection, the SMART cartridge is fit and has the functionality to measure a range different parameters such as pressure, flow rate and temperature. The collected data is transmitted to iVapps proprietary dashboard in real time.

### Specifications

#### General Description

#### PORTAL or Valve Body

#### Application

Water pipelines used with a range of industries and applications

#### Physical

1. **Model** P100, P150
2. **Sizes** 4" (100 mm), 6" (150mm)
3. **Materials** Stainless Steel (UNS S21600 / Grade 316)  
Ductile Iron

**Operating Conditions**

**Temperature** 0°C to 50°C / 32 °F to 122 °F  
**Nominal Pressure** 0~ 16 bars / PN16 / ANSI available on request  
**Environment** Can be installed in manholes or buried in the ground.

**After Sales Support** Visit [www.ivappstech.com](http://www.ivappstech.com)

**Warranty** 1 year

**Testing Standards** API 598 and EN12266-1

**Sizes\***

REFERENCE	HEIGHT (MM)	WIDTH (MM)	DEPTH (MM)	WEIGHT (KG)
P100	552.5	220	229	27.05
P150	767.61	267	285	55.92

\*Other sizes available on request.

