



THE IVAPPS BODY KNOWN AS THE **PORTAL**, ACCOMMODATES BOTH THE **SMART** CARTRIDGES AND **VALVE** CARTRIDGE OFFERING A UNIQUE SUSTAINABLE SOLUTION TO FLUID SYSTEM MONITORING, SUCH AS POWER OPTIMISATION, PRESSURE MODULATION AND LEAK DETECTION.

The iVapps solution is the only system in the World using the unique iVapps PORTAL that accommodates rapid replacement and interchangeability of telemetry with cartridges tailored to your needs.

Installed telemetry, housed within the SMART cartridge at iVapps PORTAL locations in a flow network can be rapidly upgraded. The functionality can also be immediately converted to an isolation point, using the VALVE cartridge when needed by operators.

The iVapps SMART cartridge allows fluid (water) system operators to monitor multiple parameters in the flow – such as pressure flow, temperature and chemistry. It can also be equipped with a self-powering module that recharges the power source (batteries) for the transmission of data.

The iVapps PORTAL has standard flanges and is easily recognisable to water system workers meaning no additional training is required to install.

Importantly the iVapps solution will reduce the carbon footprint of the customer through reduced water loss, greater energy efficiencies and reusability of its products.

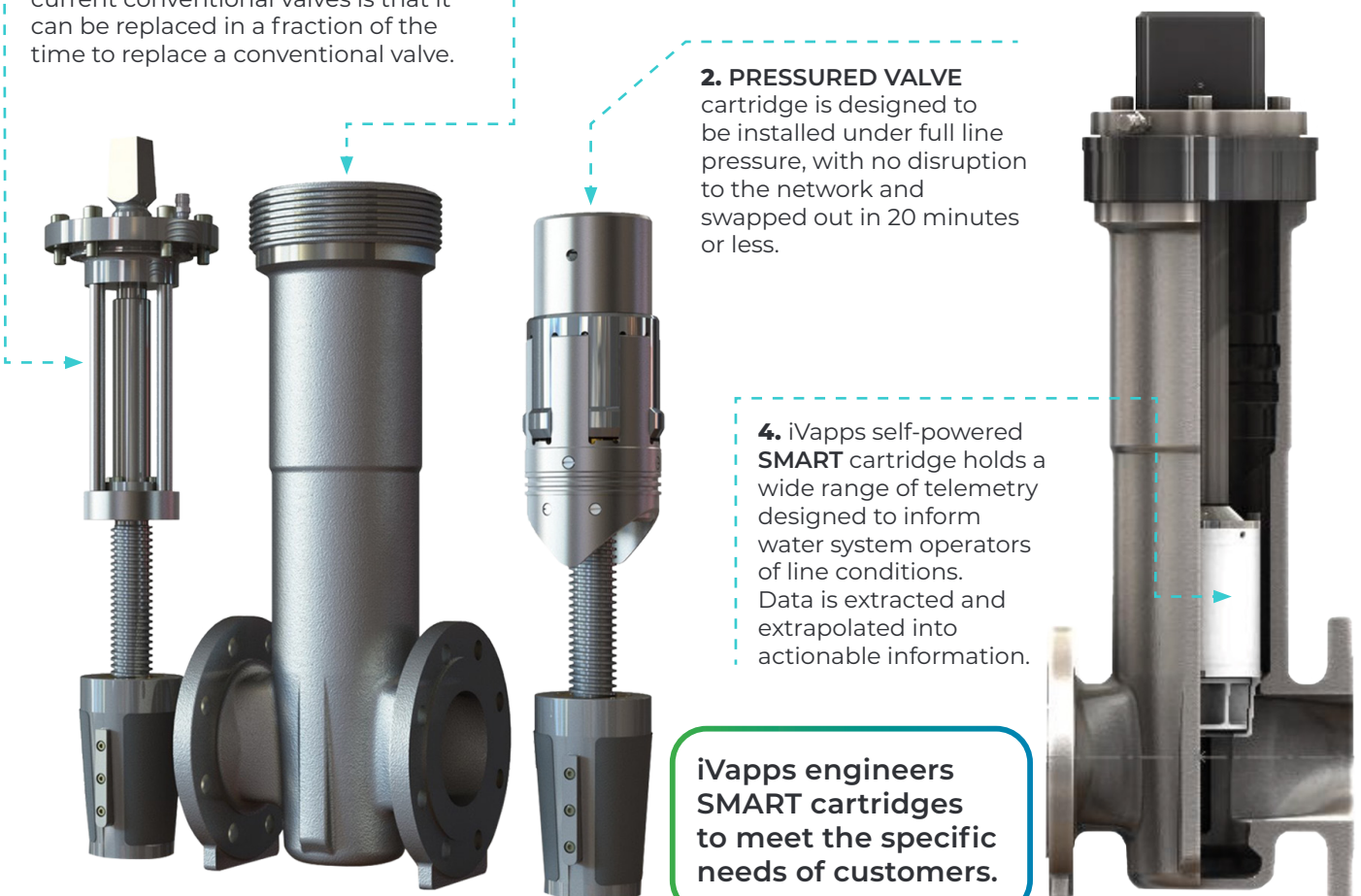
3. NON-PRESSURED VALVE cartridge is the equivalent of the currently used conventional valve and used when maintaining pressure during repairs is not an issue for example during waterline downtime, maintenance, construction and initial build. The advantage that this valve has over the current conventional valves is that it can be replaced in a fraction of the time to replace a conventional valve.

1. iVapps PORTAL is made of high quality stainless steel 316 (or such other high quality material selected by the customer) and is designed and installed in networks to last for decades - will always house the iVapps cartridges range.

2. PRESSURED VALVE cartridge is designed to be installed under full line pressure, with no disruption to the network and swapped out in 20 minutes or less.

4. iVapps self-powered SMART cartridge holds a wide range of telemetry designed to inform water system operators of line conditions. Data is extracted and extrapolated into actionable information.

iVapps engineers SMART cartridges to meet the specific needs of customers.



The self-powered SMART cartridge can incorporate multiple in-flow sensors as selected by the customer and reports real-time data on distribution grid conditions. This data is extrapolated and informs water system operators of leaks and other water conditions via an easy-to-use dashboard.

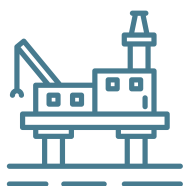
The iVapps solution enables superior and cost-effective means for the customers to monitor and efficiently manage their assets

- The unique iVapps PORTAL which houses either the iVapps VALVE cartridge or the SMART cartridge meets all existing standards of every-day valves meaning water system workers need no additional training to install
- It enables quick and inexpensive upgrades of water system sensors, as and when required
- It measures a range of parameters including pressure, flow and temperature – all from one SMART cartridge, or other parameters that the customer chooses
- The SMART cartridge delivers real-time data to water system operators via an easy-to-use dashboard
- The iVapps PORTAL can also house an iVapps VALVE cartridge to shut off the flow as and when required
- It reduces water company costs due to limiting downtime and disruption to carry out repairs. Planned maintenance can be carried out on valves and telemetry with minimal disruption to the flow network
- It has the potential to help make significant reductions to leaks, bursts and other pipeline issues such as improving energy efficiencies by optimising networks.

REAL-TIME DATA TRANSFERRED FROM THE SMART CARTRIDGE TO THE DASHBOARD.



SERVING THE INDUSTRIES



Oil & Gas



Wastewater



Water utilities



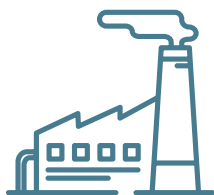
Power generation



Pharma plant



Mining



Process plants



**Food & Beverage
production**



Agriculture



**Smart cities /
Construction /
Industrial HVAC**

**Future-proof
your water
system with
the iVapps
SMART
cartridge**



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