

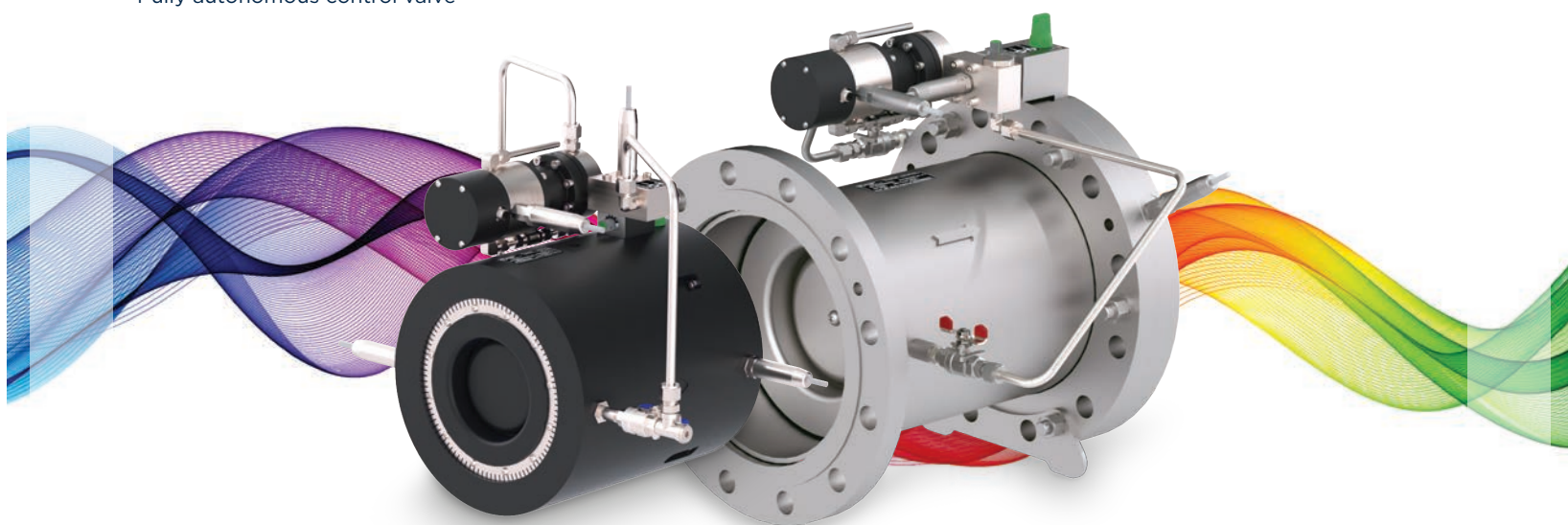
IntroFlo

Liquid Regulator

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MODEL: IPS/IPXS INTELLIGENT VALVE

Fully autonomous control valve

**PRODUCT OVERVIEW**

IntroFlo IPS/IPXS Series of intelligent valves play a critical role in smart networks. Our intelligent solution incorporates an actuated pilot, high-quality pressure transducers, and the latest proven sensor technology for water quality monitoring, flow measurement and position sensing.

Our advanced IPS/IPXS Series enables operators to apply the appropriate type of control, from simple time profiles to autonomous, intelligently optimised control of pressure and flow rate. Customers can use smart valves to experience proactive, predictive and prescriptive automated operation and management.

FEATURES AND BENEFITS

- Fully autonomous, intelligent pressure, and flow rate control options.
- Real-time data provision, visualisation and remote-control capability.
- Capable of acquisition and transmission of water quality data from third party sensors.
- Manages the acquisition and transmission of data from third party flow meters, including Modbus TCP, Pulse and Analogue (4-20mA) connections.
- Designed for deployment at strategic nodes within water distribution networks.
- Lightweight integrated solution.

APPLICATIONS

Max. inlet pressure	12 bar
Outlet pressure range	1 to 11.8 bar
Minimum head loss	Down to 0.1 bar ¹
Working fluid temperature	-10°C to 55°C
Ambient temperature	-20°C to 60°C
Ingress protection	IP68
Power consumption	13 W max. (4.9 W typ.)
Voltage input	12-32 VDC
Communication protocol	Modbus TCP

Not for use as a safety device.

¹ Minimum head-loss values vary with valve series and valve size.

PERFORMANCE, SIZING AND KEY DIMENSIONS

- IPS and IPXS Series intelligent valves use the same valve bodies as the IP and IPX Series.
- Use the IP and IPX technical data for available valve sizes, Kv, Kg, Cv and Cg values.
- The IPS and IPXS Series Intelligent Valves use the PA1 pilot. This is comparable to the manual pressure reducing and pressure sustaining pilots.
- Use the IP and IPX technical data for key dimensions.

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INSTALLATION



CONSTRUCTION MATERIALS

ASSEMBLY/PART	WETTED MATERIALS
Actuated pilot	Acetal resin (WRAS), 316SS, EPDM
IP Series	Acetal resin (WRAS), 316SS, EPDM
IPX Series	Acetal resin (WRAS), 316SS, EPDM
Transducer	304SS, FKM

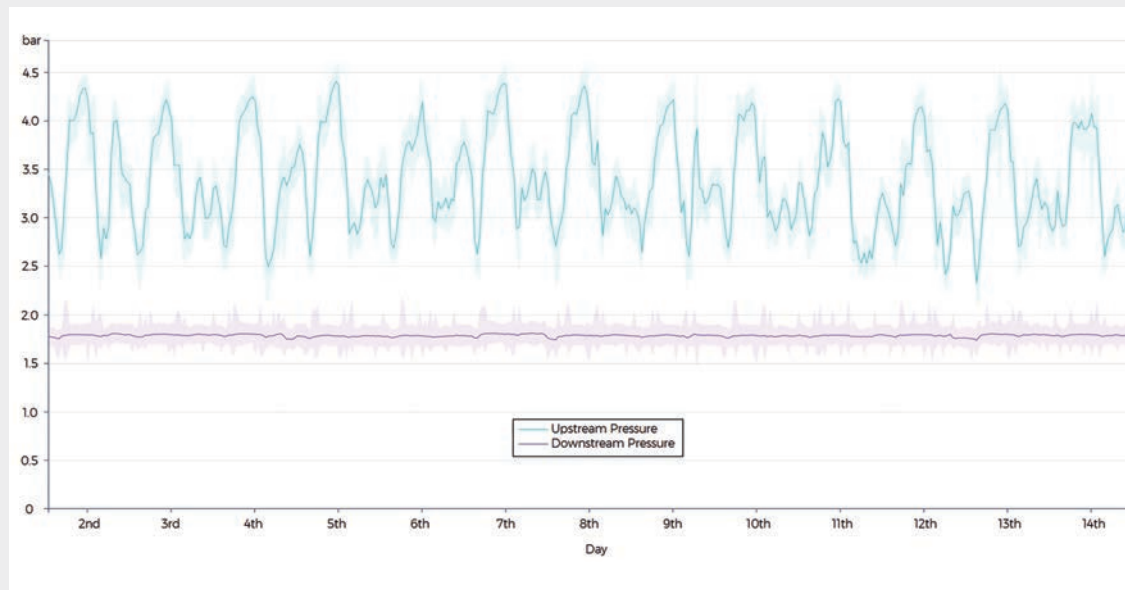
CONTROL UNIT INTERFACE



ACCESSORIES

- Manual pilot commissioning tool.
- Modbus TCP to RTU protocol converter.
- Water quality conversion kit.
- Flow meter protocol converters:
 - Modbus RTU
 - Pulse (up to 1000 Hz)
 - 4 to 20mA.

EXAMPLE CONTROL DATA



IPSI/IPS-03-23-V2

Reimagining valve technology together:

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OXFORD FLOW

DISCLAIMER

Details of products may vary. IntroFlo does not guarantee or warrant the availability of the models described in this Product Sheet or the accuracy or completeness of the details provided. The contents of this Product Sheet shall not form the basis of any contract or representation. Please refer to the relevant Product Data Sheet for technical details of our products.

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