

IMVS

2000

Integrated Monitoring Valve System



IMVS2000: make your powerful piston type actuator intelligent

The most refined and consolidated technology from the ICON2000 product family has been transferred by BIFFI to operate and control the traditional and strong piston actuators

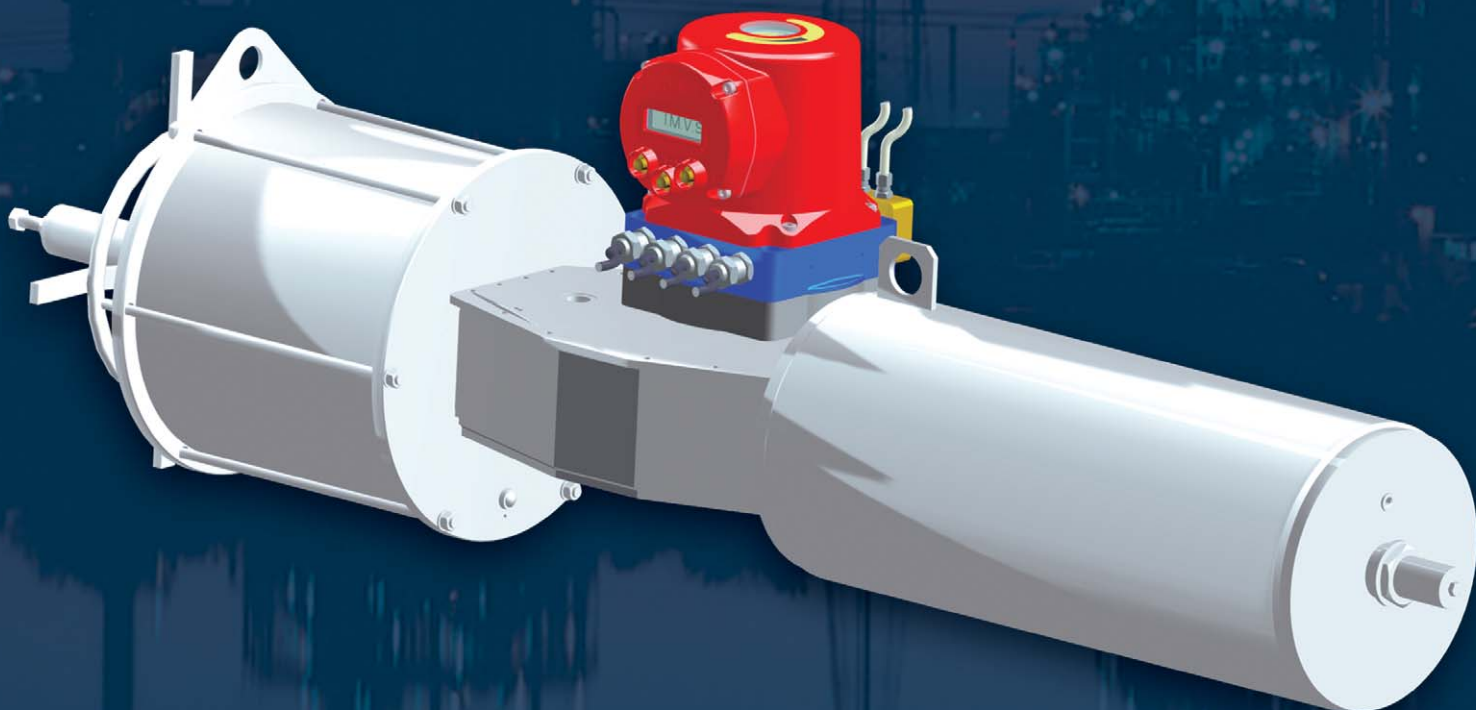
IMVS

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Integrated Monitoring Valve System

Valve/actuator partial stroke test device with monitoring and diagnostic smart system:

- Connect Emergency Valves with a superior control device (i.e. PLC, DCS);
- Enable the plant management to minimise the number of unexpected shutdown occurrences;
- Activate a punctual and accurate maintenance program with minimum cost impact and higher H&S management level.



Biffi IMVS2000 is installed directly onto the actuator frame and can either be fitted as part of the control system of a new package or as an easy retrofit of existing in-field control systems. It offers the following basic features:

- Partial Stroke Test (fully automatic or locally/remotely activated) with the valve on-line and in service;
- Measurement and record of pressure, position and time values during the PST or during the normal stroke (full or partial) of the valve with integrated sensors;
- Valve/actuator tag and diagnostic data record.

Few simple steps to implement a Safety System on existing in-field ESD valve applications:

- Use existing valve/actuator assemblies;
- Add BIFFI IMVS device (BIFFI IMVS can be installed as a replacement of the existing micro switches box or in addition to the existing one);
- Add intelligent software;
- Test the entire loop.

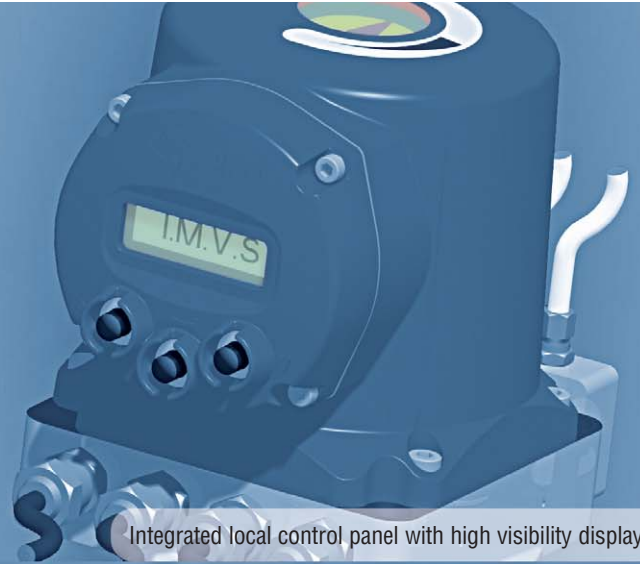


THE VALVE IS NOW UNDER COMPLETE CONTROL

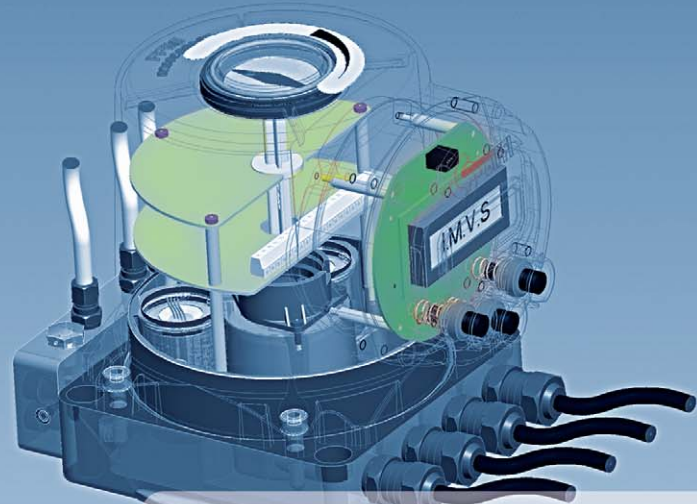


Operational principle:

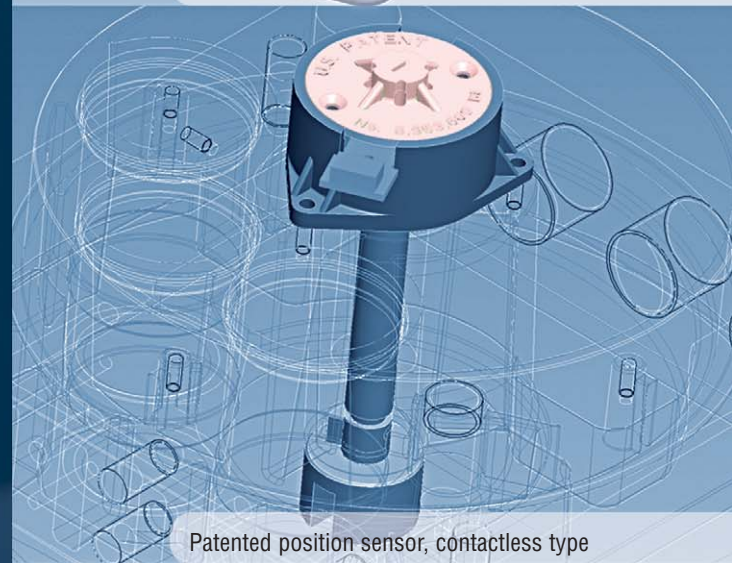
- BIFFI IMVS is suitable to be installed onto single and double acting actuators, pneumatically or hydraulically operated;
- Suitable for rotary and linear valves;
- BIFFI IMVS receives continuous inputs from the valve/actuator assembly in terms of:
 - analogue position of the valve;
 - operating pressure in the actuator cylinder;
 - process pressure upstream or downstream the valve (if required);
 - additional analogue signal for process/ambient information or for valve leakage detection system.
- Basic IMVS compares an original full and partial manoeuvre print of an ESDV assembly with relative pneumatic or hydraulic components such as solenoid valves, against a totally configurable partial stroke test;
- Configuration, calibration, commissioning, diagnostic report and historical data download of the assembly valve/actuator through the local configuration panel with LCD display, non-intrusive type, or remotely through traditional systems or industrial PDA/PC with Bluetooth® data transmission system (OPTIONAL);
- Advanced open bus communication protocols: Lonworks, Profibus DPVO-DPV-DPV1 Redundant, Foundation Fieldbus, Modbus, Hart, DeviceNet, Asi;
- Suitable to be operated in SIL3 applications;
- Certified for hazardous area;
- User-friendly valve-actuator manager with graphic interface windows based.



Integrated local control panel with high visibility display



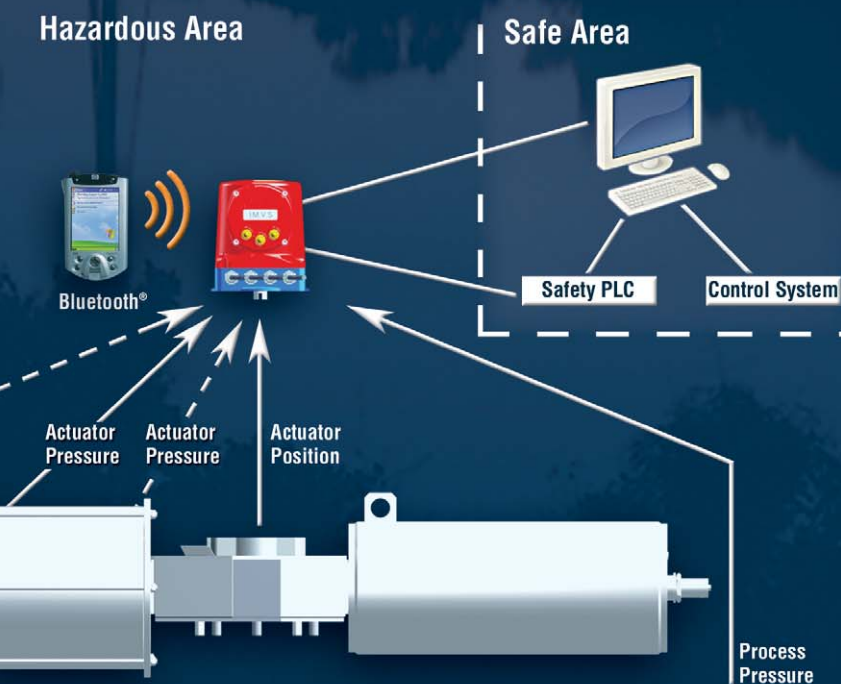
Easily upgradable modular construction



Patented position sensor, contactless type



Integrated actuator and line process pressure sensors





LONWORKS®



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV
ISO 9001



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