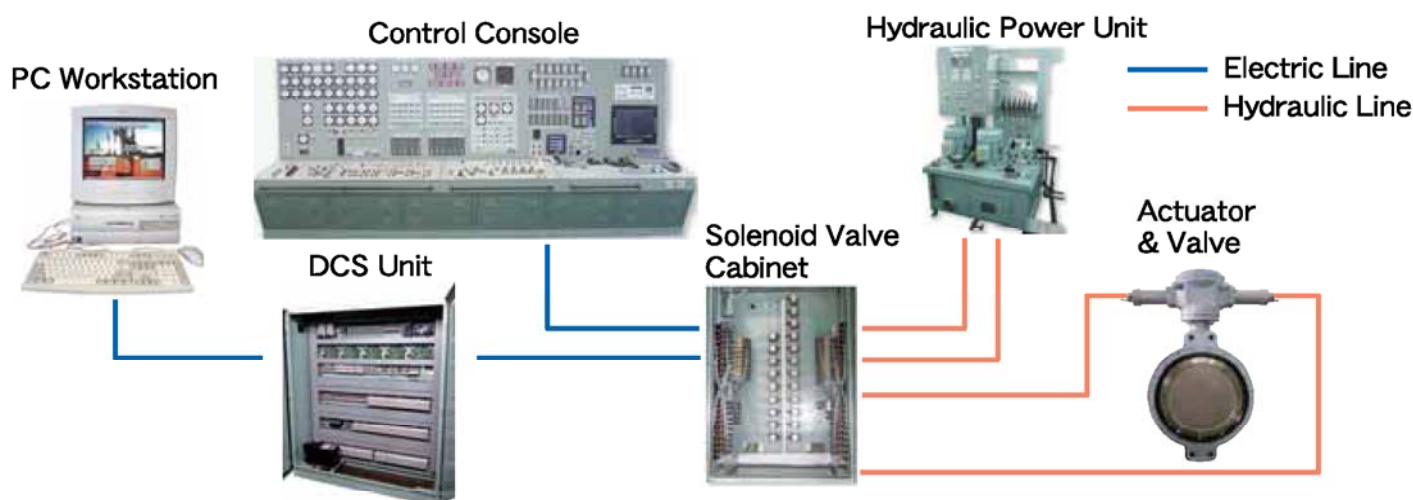




VALVE REMOTE CONTROL SYSTEM

Introduction

U.P.I Valve Remote Control System is designed for reliable and cost-effective operation throughout the vessel's entire life using latest available technology based on many years of experience in various kind of vessels.

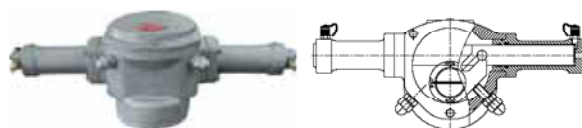


Actuator

U.P.I produces various kind of Actuator for valve to meet specific requirements of each specific vessels. The standard is designed for hydraulically operated two type of double acting actuator and covers torque requirement up to 25.344Nm.

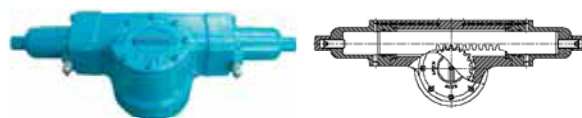
Hydraulic Actuator - Scotch York Type

Working maximum pressure : 210 kg/cm²
 Working temperature : - 20 to +80 °C
 (Other temp. range on request)
 Rotating angle : 90°±1 End adjustment : ±3°



Hydraulic Actuator - Rack & Pinion Type

Working maximum pressure : 210 kg/cm²
 Working temperature : - 20 to +80 °C
 (Other temp. range on request)
 Rotating angle : 90°±1 End adjustment : ±3°



Hydraulic actuator offers the following advantage

- Simple and compact design
- High reliability
- Adjustable open and close position
- Suitable for submerged service
- Easy repair and maintenance without dismantling from the valve.
- Not easy damage as no pipe outside
- Suitable for all quarter turn valves
- Long life performance

Other type of Actuator

Three kinds of actuator we handle such as Pneumatic Actuator, Electric Motor Actuator and Electro-Hydraulic Actuator besides Hydraulic Actuator.



Valve

U.P.I produces various kind of Butterfly Valve and Globe Valve to meet specific requirements of each specific marine applications.

The technology used in the manufacturing the valves is advanced and developed with patent. U.P.I also produces special valve such as Double-Eccentric Cargo Oil Butterfly Valve, Triple-Eccentric Metal Seated Butterfly Valve, Check Valve, Air Vacuum Relief Valves, Resilient Seated Gate-Valves, Slide Gate-Valve, High-Pressure and High-Temperature Valves and other accessories related etc.

Concentric Butterfly Valve

The concentric Butterfly Valve is a symmetrical disc design, ensuring favorable flow-characteristics and low pressure drop. Concentric Butterfly Valve can be manufactured with the sizes up to 3,000mm with replaceable rubber seat, with various kind of materials. The valve shall be capable of bi-directional flow with bubble tight shut-off at full rating pressure.

The unique seat design with retaining points, virtually eliminates any seat movement during open/close operation of the disc. A PTFE/PFE lined body is also available for chemically high-corrosive fluid conditions.

- Size : 50 to 3000 mm (120 inch)
- Working temperature : - 20 to +200 °C
- Working pressure : 0 to 16 bar



Double Eccentric Cargo Oil Butterfly Valve

Rubber seated double eccentric butterfly valve future is a heavy loaded design for high-pressure and high flow-rate applications. They have been widely adopted for oil and gas valves in the oil tankers, FPSO on shore/off shore field and high flow-rate piping systems. The delicate design of the seat ring keeps the retainer free from any pressure from flanges on adjacent pipes, misaligned flanges or flexibility in the pipes. The valve shall be capable of bi-directional flow and provide bubble tight shut-off at full pressure.

- Size : 50 to 1000 mm(40inch)
- Working temperature : - 20 to +250 °C
- Working pressure : 0 to 30 bar

Hydraulic Power Unit

A Hydraulic Power Unit provides two hydraulic oil pumps and motor as stand-by back up, with Accumulator.

- Hydraulic pump & Electric motors
- Accumulators
- Pressure switches
- Pressure gauges
- Pressure transmitter
- Temperature sensor
- Sight glass
- Level switch
- Return oil filter
- Pressure relief valves
- Non-return valves
- Starter box
- Other necessary valves & fitting

Oil tank volume : As necessary capacity

Electric motor : 3φ380V / 440V 60Hz

Relief valve setting : 140kgf/cm²

Alarm : Low level, High temperature, Low & High pressure



Solenoid Valve Cabinet

The solenoid valve cabinet distributes pressurized oil from the hydraulic power unit and pneumatic from the rotary actuator to open or close valve by the signal from Control Cabinet or DCS Unit.

- Solenoid valve 3/4,2/4 way
- Pressure relief valves
- Flow switches for open/shut position indication
- High pressure filter on main "P line"
- Stop valves
- Throttle valves
- Emergency quick connectors
- Manifold blocks
- Other accessories

