

**oil & gas**



**marine**

# Valve Remote Control

Scana Skarpenord



## The Company

Scana Skarpenord AS is one of the world's leading suppliers of valve remote control systems for shipping and Oil & Gas industry.

Scana Skarpenord AS is located in Rjukan, about 170 km west of Oslo. The production facilities, approx. 4500 m2 comprise workshops and administration office.

The company designs and manufactures complete valve remote control systems according to client's specifications. The basic product in this system is our well-known Scotch Yoke type hydraulic actuator.

The products are under continuous development, and our highly qualified engineers will implement the leading innovations of this particular field.



## Oil & Gas

The Valve Remote Control from Scana Skarpenord includes actuators for operation of ball, butterfly, gate and globe valves. The actuators are among others used for various process valves, loading and offloading systems and ballast systems on floating installations.

Control circuits for actuator/valve operation are delivered in many different types. The circuits can be controlled from a centralized system, or from a "stand alone" PC/PLC system delivered by Scana Skarpenord.

Tailor made hydraulic power units is also part of the product range delivered to the Oil & Gas segment.

The products from Scana Skarpenord are suitable for new-builds as well as for upgrading or modification of existing vessels/installations.

Spare parts can be delivered also for older installations, and maintenance, repair, upgrading and modification of existing equipment can be offered.

Complete documentation for systems delivered through the last 30 years is in the company's possession at Rjukan

The company's skilled service engineers can assist on site with surveys and installation.

Safety and reliability are given the highest attention, and high quality components are used to secure the best possible performance and trouble free operation.

### Quality products, services and maintenance

## Marine

### Valve Remote Control

The Valve Remote Control system manufactured by Scana Skarpenord AS is designed according to specifications given by the client, and according to classification societies requirements.

Our engineering department has over the year's accumulated considerable amount of experience and technical know-how and will in cooperation with the client select the best alternative.

The Valve Remote Control system consists of:

- Solenoid valve cabinet
- Hydraulic power unit
- Hydraulic actuators (single - and double acting)

The Valve Remote Control system delivered from Scana Skarpenord AS can be operated from:

- Scana Skarpenord computerized valve control
- or the vessels main automation system
- or conventional control console with mimic panel

### Leading edge technical solutions



## Typical products

### Hydraulic and Pneumatic actuators

Valve actuators for both ¼ turn and linear valves are designed and manufactured by Scana Skarpenord. The actuators are delivered as both pneumatic and hydraulic types, both singleacting and doubleacting.

The ¼ turn actuators are based on the scotch yoke principle, and can be delivered with mechanical locking (doubleacting type only)

A wide range of cylinders and spring allows configuration of actuators to desired torque or force output at different working pressures.

Different types of signal transmitters for remote indication of valve position are also part of the delivery program.



### Control Circuits

Hydraulic and pneumatic Control Circuits are delivered both as open panels or enclosed cabinets. The control units can be delivered with various functions, and are designed according to the clients specification. High quality components are chosen in order to secure the best possible performance and reliability.



### Hydraulic Power Unit

Tailor made hydraulic power units for various types of system service.

Various control and monitoring solutions are available, and different back-up/accumulator arrangements can be delivered.

Scana Skarpenord actuators and control systems can be used for any type of control application.

40 years in the business makes us experienced in the design and installation of valve remote control systems.

Technical drawings and specifications for systems delivered throughout the world over the years make us prepared to meet your next up



## System design

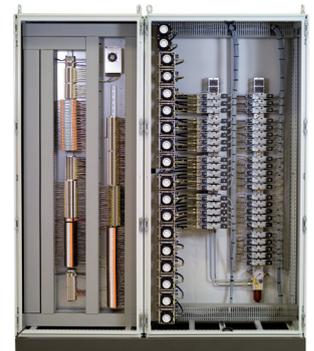


### Scana Computerized Valve Control

The Scana Skarpenord computerized valve control is a centralized system for control/monitoring of valves and hydraulic power unit. The valve remote control functions are carried out via customized mimics on the screen. The operation is conducted on a touch screen or by track ball/ keyboard. The solution minimizes the need for cabling between the different units.

### Solenoid Valve Cabinet

The cabinet contains solenoid operated directional valves for distribution of high-pressure oil to the actuators. Valve position can be measured indirectly and transferred to the Scana Skarpenord computerized valve control via one single cable unit.



### Hydraulic Power Unit

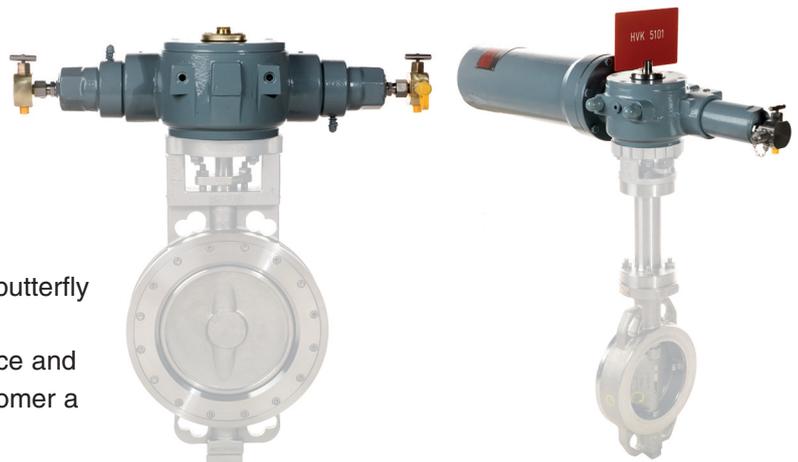
The hydraulic power unit with oil reservoir, hydraulic pumps and accumulator unit feeds the system with high-pressure oil. All components are selected to ensure high reliability and low noise.

### Hydraulic Actuator

(Single - and double acting)

The actuator operates ball- and butterfly valves.

The design simplifies maintenance and installation, which gives the customer a cost effective product.



Gaustatoppen, Rjukan, Norway 1,883 metres

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## Service Department

**Scana Skarpenord AS** is continuously keeping a “service stock” in order to deliver spare parts quickly. A staff of well qualified service engineers, also with safety course required for offshore, will at short notice perform necessary maintenance and service, onshore/offshore – world wide.

During installation and start-up, our service engineers can also be required for assistance and supervision. Detailed information for installation, start-up and maintenance will be given in service manuals.

## Quality Assurance

Scana Skarpenord’s products, services and production are assured through an extensive Quality Assurance System (QA-system). The QA-system is approved by Det norske Veritas (DNV) to comply with ISO 9001: 2008.

## Type Approval

The actuators, both the Scotch Yoke and the Linear type are type-approved by DNV.

## Classification Society Approvals

The Valve Remote Control systems have been approved by among others:

- Det norske Veritas
- Bureau Veritas
- Lloyd’s Register of Shipping
- Chinese Classification Society
- American Bureau of Shipping
- Germanischer Lloyd



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