316SS
GEARSBOXES

316SS QUARTER-TURN
GB GEARBOXES SERIES

PRO CONTROL
VALVE ACTUATION & CONTROL

General FEATURES

- Specifically engineered for offshore use;
- Robust construction to meet the most challenging expectations, harsh weather protection;
- Zero maintenance;
- Self-locking movement;
- Blind tapped threaded connection;
- Absence of a cover plate;
- Dome water run off position indicator;
- Graduated Open & Close rotation scale;
- Input shaft axial needle roller thrust bearings;
- Alu-bronze quadrant rotation bushings with O-ring sealing;
- O-ring sealed position indicator;
- O-ring sealed lower modular mounting flange;
- IOGP S-562 / API6D 25TH ed. compliant;
- Stainless steel SS316 Grease injection nipples on gear housing and position indicator quadrant shaft void;
- Stainless steel SS316 housing overpressure relief valve;
- Limit switch box standard Namur drive slot located in the position indicator;
- Standard predrilled for limit switch mounting (assembly kit supplied if requested);
- Pad-lockable hand wheel.
- Fluorosilicone O-rings

316 Stainless Steel is the best available response to highly corrosive environments. PROCONTROL SGB Quarter-Turn 316 stainless steel gear operators have been created as a complementary product to our range of 316 stainless steel actuators: specifically engineered for long stand still operation in harsh and hostile conditions, capable of withstanding extreme applications such as freezing and arctic environments, hot & humid marine environments, highly corrosive chemical environments, hydrogen applications and more. PROCONTROL SGB gear operators are intended for the operation of all quarter turn valves such as ball, butterfly and plug valves. 316 stainless steel handwheels are available in a variety of sizes for a smooth and easy operation.

Technical DATA

MODEL	**SGB – QUARTER-TURN GEARBOX**
MATERIAL	**AISI 316 Stainless Steel** **AISI 316 Body** **AISI 316 Shaft** **AISI 316 End stop screws** **AISI 316 O-ring sealed caps** **AISI 316 Fasteners** **AISI 316 Housing grease injectors** **AISI 316 Quadrant void grease injectors** **AISI 316 Overpressure relief valve**
APPLICATION	MANUAL ON-OFF
TORQUE	7 models from 1000 Nm up to 16.000 Nm
STROKE	0-90° (+/- 5° adjustable)
IP	IP66/67/68 TUV tested & certified
TEMPERATURE	°C-40°/+100°(F°-20/+212°) standard °C-60° (F°-76°) on request

Main APPLICATIONS

Corrosion is one of the most common factors which contributes to equipment failure and is a threat to plant operation, profitability & safety. Stainless steel is recognized as the premium material for offshore and marine applications where it is used for its excellent corrosion resistance and strength. Grade 316 stainless steel contains 16-18% Chromium and 11-14% Nickel which provides better corrosion resistance than conventional 304-grade stainless steel. It also has molybdenum content which gives it greater pitting and crevice corrosion resistance compared to other austenitic grades of stainless steel. The following are some key benefits of using 316 stainless steel:

CORROSION RESISTANCE
THE INCLUSION OF MOLYBDENUM IN 316 STAINLESS STEEL IMPROVES ITS RESISTANCE TO ACIDS, ALKALIS, AND CHLORIDE PITTING;

RUST AND ABRASION RESISTANCE
COMPARED TO OTHER STAINLESS STEEL GRADES, 316 EXHIBITS SUPERIOR RESISTANCE TO RUST AND ABRASION;

HEAT AND COLD RESISTANCE
316 STAINLESS STEEL PERFORMS WELL IN TEMPERATURES UP TO 800 °C;

DURABILITY
iT RETAINS ITS CORROSION RESISTANCE WITH MINIMAL MAINTENANCE;

SUSTAINABILITY
316 STAINLESS STEEL IS 100% RECYCLABLE!