



QUARTER TURN RACK&PINION ACTUATORS SUBSEA

CONFIGURATION	SINGLE and DOUBLE ACTING
ACTION ON LOSS OF SUPPLIED ENERGY	SINGLE ACTING - FAIL TO CLOSE SINGLE ACTING - FAIL TO OPEN DOUBLE ACTING - FAIL LAST
OPERATING SUPPLY PRESSURE	As per Application requirements
ROV INTERFACE FOR LOCAL OVERRIDE	ISO13628-8 / API 17H Classes; others as per application requirements
WATER DEPT INSTALLATION	ANY
HYDRAULIC CONTROL FLUID TYPE	as per application requirements
TEMPERATURE RANGE	std -10°C/+70°C extended ranges on request
ORIENTATION	as per application requirements
Material Selection	DSS/SDSS for pressure retaining, controlling parts and other wetted critical components; high strength materials for internals and torque transmitting and internal parts; customized selections as per application requirements
DESIGN FEATURES	Simple and reliable design for minimum vertical dimensions. Modular execution. Easily externally adjustable stops for perfect valve stroke and alignment. Weight balanced design. built-in override systems for local intervention; built-in compensation system (Closed, Open, Common compensation systems as per application requirements) built-in local visual indicators redundant seal arrangement applied on all dynamic sealing no fluid displacement during override stroking
SPECIAL FEATURES	Hydraulic and electric interfaces made in accordance with customer requirements. Customized layout: engineered drive extensions and ROV/Diver intervention fixtures; customized features to meet any required orientation for installation; Tailor made position indicators according to Client requirements: Local and remote systems featured with single or redundant VDT and /or limit switches subsea retrieval: built-in Diver or ROV operated retrievability systems featured with self-clutching and self-alignment systems and customized lifting arrangement interfaces; Valve interface designed for use of protection or pressure caps
PRODUCT RANGE	from 20kNm up to 600kNm Output Torque

General Features

- fully tailored to meet the application requirements (valve integration, sizing, fail modes, operating pressures, temperature ranges, stroking time)
- material selection customized in accordance with Client needs and Service requirements
- Fully compensated design: suitable for installation at any water depth
- built-in mechanical override systems for local intervention
- Designed for extended operational life
- redundant seal arrangement applied on all dynamic sealing
- Compact design available for PLEM and manifold installation
- Fully designed and qualified according to API 6A, API 17D, API 6D, API 6DSS, ISO 13628, ISO 10423, ISO 14723.
- API 17D, ISO 13628-8 or tailor-made diver / ROV interfaces.

Optional Features

- Selection of Hydraulic and electric interfaces made in accordance with customer requirements.
- subsea retrieval: built-in Diver or ROV operated retrievability systems featured with self-clutching and self-alignment systems and customized lifting arrangement interfaces; Valve interface designed for use of protection or pressure caps
- Customized layout: engineered drive extensions and ROV/Diver intervention fixtures; customized features to meet any required orientation for installation
- Tailor made position indicators according to Client requirements: Local and remote systems featured with single or redundant VDT and /or limit switches
- Protection or pressure retaining caps engineered to protect valve stem and prevent any leakage to the environment after operator removal.

