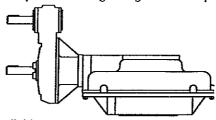
# SPECIFICATION AND OPTIONS FOR EXEECO BEVEL GEAR OPERATORS

### Specification:

- -Output torque range available up to 10850Nm (manual) and 8150Nm (motorised).
- -Thrust range available up to 1557kN.
- -Valve spindle acceptances up to Ø120mm (bored and keywayed) and Ø150mm (threaded).
- -Basic gear ratios from 1:1 to 8:1.
- -Compatible with auxiliary spur gear attachment AS type giving total ratios up to 120:1.

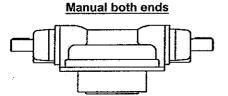
#### Options:

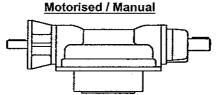
-Auxiliary spurs may be fitted with 'twin input' shafts to give high and low speed operation.

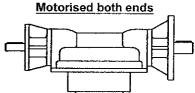


IB/AS Combination Bevel/Auxiliary Spur Gearbox

- -Form B non thrust taking units are available.
- -Through input shafts are available for operation of secondary gearboxes on twin spindle applications. Input options include:-





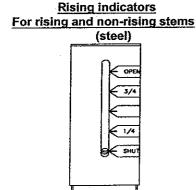


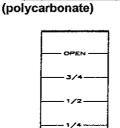
- -Valve spindle cover tubes are available in steel and clear polycarbonate.
- -Valve position indication is available via several types of gearbox mounted indicator including:

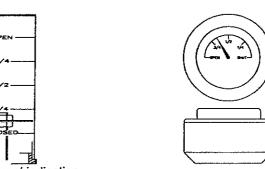
  Rising indicators

  Rising indicators

  Dial type indicators



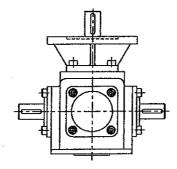




for rising and non-rising stems

-Steel indicators are available with limit switches for end of travel indication.

-Middle gearboxes MB type are available with two or three shafts to drive further gearboxes at various angles.



## Other options available:

- -Standard rotation is clockwise output for clockwise input. Anti-clockwise output for clockwise input is available.
- -Buried duty, Submersible duty, Marinised duty, Raw Sewage duty, Nuclear duty, High and low Temperature duty.
- -Lockable hand wheels and flanges, Temperature and Thrust Compensators

Standard rising spindle cover tubes are available in 200mm increments (100mm increments up to 1 metre long). Alternative lengths are available on request. Customer specific covers available include:-

a) Aramco b) drilled / tapped holes in end plates c) NPT thread forms.

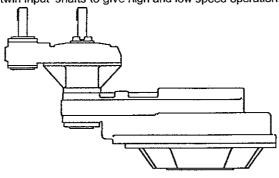
#### SPECIFICATION AND OPTIONS FOR EXEECO SPUR GEAR OPERATORS

## Specification:

- -Torque range available up to 46100Nm (manual) and 43400Nm (motorised).
- -Thrust range available up to 3350kN.
- -Valve spindle acceptances up to Ø200mm (bored and keywayed) and Ø225mm (screw cut).
- -Basic gear ratios from 1:1 to 24:1.
- -Compatible with auxiliary spur gear attachment AS type giving total ratios up to 360:1.

#### Options:

-Auxiliary spurs may be fitted with 'twin input' shafts to give high and low speed operation.

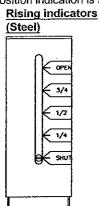


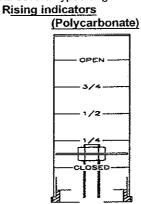
IS/AS Combination Spur/Auxiliary Spur Gearbox

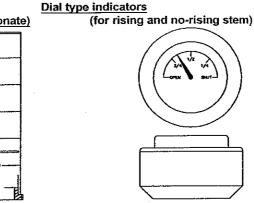
-Form B non-thrust taking units are available.

-Valve spindle cover tubes are available in steel and clear polycarbonate.

-Valve position indication is available via several types of gearbox mounted indicator including:

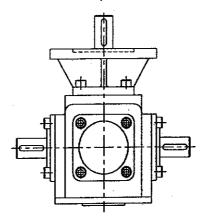






-Steel indicators are available with limit switches for end of travel indication.

-Middle gearboxes MB type are available with two or three pinions to drive further gearboxes at various angles.



## Other options available:

- -Standard rotation is clockwise output for clockwise input. Anti-clockwise output for clockwise input is available.
- -Buried duty, Submersible duty, Marinised duty, Raw Sewage duty, Nuclear duty, High and Low Temperature duty.
- -Padlockable Hand Wheels and Flanges, Temperature and thrust compensators.
- -Extended input shafts are available for manual operation of gearboxes fitted with rising spindle cover tubes.
- Standard rising spindle cover tubes are available in 200mm increments (100mm increments up to 1 metre long). Alternative lengths are available on request. Customer specific covers available include:
  - a) Aramco b) drilled / tapped holes in end plates c) NPT thread forms.