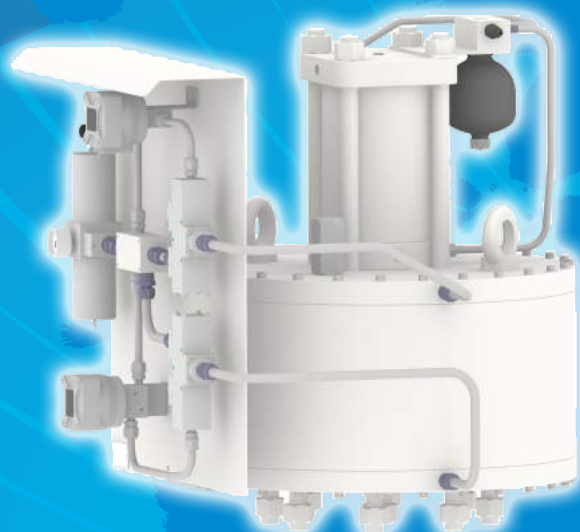


ACTUATORS



Non-tie-rod design

Designed for frequent cycling

Designed for long still stand

Type	Linear Pneumatic / Hydraulic
Piston Diameter	120 - 1450 mm
Stroke	40 - 1000 mm
Operation	Double acting / Spring return
Temperatures	Up to -60°C
Function	On/Off; Control

GENERAL INFORMATION

Applications:

- High flow
- High temperature
- Low temperature
- High pressure
- Cryogenic service
- Abrasive flow
- HIPPS function
- Corrosive environments
- Oil, Gas and water
- Pig Launcher / Receiver
- Manifold export and flow lines
- Below seal constructions

Subsea:

- Subsea isolation SSIV
- Manifold export and flow lines
- Pipeline End Termination (PLET)
- Pipeline End Manifold (PLEM)
- Pig launcher / Receiver
- 3000m Deep water
- Oil, Gas and water
- Pig Launcher / Receiver
- Manifold export and flow lines

MODELS

LIN - 480 (X2) - 110 - DA - HD - LT

Special executions
Hydraulic dampener
Operation
Stroke
Additional feature
Piston Diameter
Actuator type

Actuator type:

LIN: Linear - Pneumatic
LINH: Linear - Hydraulic

Piston diameter (mm):

120	520	960
160	570	1000
200	620	1050
240	670	1100
280	720	1150
320	770	1250
370	820	1350
420	860	1450
480	920	

Additional features:

Blanco: Standard configuration
X2: Tandem Actuator (2 cylinders)
X3: Tandem Actuator (3 cylinders)

Actuator stroke:

Depends on the valve stroke and may vary from aprox. 40mm up to 1000mm.

Operation:

DA: Double Acting
SRC: Spring Return Close
SRO: Spring Return Open

Actuator stroke:

Standard for LIN420 and above.

Actuator type:

LT: Low temperature (up to -60°C)

CONTROL SEAL BENEFITS

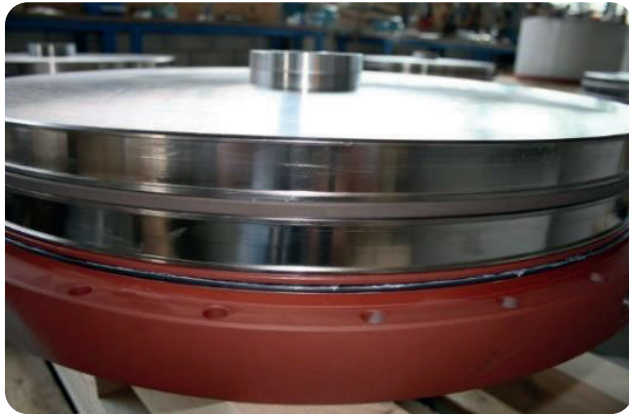
Non tie-rodged design

We have developed the non tie-rodged pneumatic actuator design. This feature completely avoids corrosion of the critical tie-rods which are under continuous exposure of the environmental / weather conditions. Through the years tie-rods will corrode considerably resulting into serious actuator damage and dangerous situations.



Non sticking seals

We have selected a special non sticking teflon reinforced main seal. This special main seal avoids sticking of the seal during long still stand. Other actuator brands use rubber seals which may stick to the cylinder wall during long still stand, causing fatal actuator leakage.



Nickel plated internals

We have chosen for nickel plated internals instead of the more commonly used chrome plated internals to optimize the benefits of the unique seal design and to ensure that the actuator performs excellent after a long period of no usage (non sticking design).

CONTROL SEAL BENEFITS

Compact design

We design each individual actuator in detail in order to select the exact dimension of the cylinder and the spring required. This aspect results into a product that is made fit for purpose and automatically results into considerable weight savings.



Integrated hydraulic dampener

We have selected a special non sticking teflon reinforced main seal. This special main seal avoids sticking of the seal during long still stand. Other actuator brands use rubber seals which may stick to the cylinder wall during long still stand, causing fatal actuator leakage.



CONTROL SYSTEMS

- Control Panels and modules
- Modulating systems
- ESD systems
- HIPPS systems
- Compressor systems
- Power racks
- Welhead control systems



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