MAXIMATOR®

GLOBAL PRESSURE SOLUTIONS

Support Systems for Mechanical Seals

MAXIMATOR[®]

HIGH PRESSURE TECHNOLOGY · HYDRAULICS · PNEUMATICS · TESTING EQUIPMENT

MAXIMATOR Support Systems for Mechanical Seals:

- Lubrification-Systems
 - (for support of API 53 B)
- Compressions systems
- Circulations systems
- Monitoring systems
- Thermosiphonsystems









MAXIMATOR Support Systems for Mechanical Fluid Seals:

Characteristics:

external circulation system
external or central seal system with level indicated leakages





MAXIMATOR Support Systems for Mechanical Fluid Seals: External circulation systems

- Cost reduction of process monitoring
- No electrical installation (only control elements)
- ATEX approved
- process reliability as the unit
- incorporates a stand by pump







MAXIMATOR Support Systems for Mechanical Fluid Seals:

Characteristics:

- Pressure switch
- Pressure gauge
- heat exchanger
- accumulator
- Drain valve

extension: Feeding of the leakages





MAXIMATOR Support Systems for Mechanical Fluid Seals:

Air – and water heat exchanger

- laser welded and ribbed-coils
- high cooling capacities
- low flow resistance of the sealing medium
- wetted parts from stainless steel (1.4571)
- ATEX approved







MAXIMATOR Support Systems for Mechanical Fluid Seals:

Central feeding unit for the support of API 53b Systems

- Cost reduction caused by supplying several mechanical fluid seals with only one MAXIMATOR Unit
- 250 liter tank volume
- Complete process reliability as the unit incorporates a stand by pump
- Automatic changeover to stand by pump
- No electrical installation (only control elements)
- Visible and audible alarm device at changeover to stand-by pump
- ATEX approved







MAXIMATOR Support Systems for Mechanical Fluid Seals:

Characteristics:

- Thermosyphon vessel
- Level indicator
- Level switch
- Pressure gauge
- Pressure switch
- Drain valve
- air bleed valve







MAXIMATOR Support Systems for Mechanical Fluid Seals: Thermosiphon- Vessel

- Lubrication and cooling of the mechanical seal
- Compensation of leakage and monitoring of the leakage rate by means on an inspection glass







MAXIMATOR Support Systems for Mechanical Fluid Seals: Nitrogen – Amplifier Station pressure increase ratio 1:2, 1:4

- pressurising thermosyphon vessels
- Effective cost reduction for process control
- no energy consumption after final pressure is attained







MAXIMATOR Support Systems for Mechanical Gas Seals:

Characteristics:

- Shut off valve
- Pressure regulator
- Flow meter
- Flow alert
- Pressure gauge
- Pressure switch
- Throttle
- Air bleed valve





MAXIMATOR Support Systems for Mechanical Gas Seals:

- ATEX approved
- stainless steel
- according to requirements:
 - port for gas bottles (emergency supply)
 - Redundancy of pressure regulator and gauges
 - for 1 up to "x" mechanical seals
 - pressure switch
 - flow / pressure monitoring and alarm device









MAXIMATOR Support Systems for Mechanical Gas Seals:

- pressure increase
- plate of stainless steel, housing or frame
- insure seal supply of nitrogen and delete pressure fluctuation
- according to requirements:
 - wetted parts stainless steel / EPDM
 - Proportional pressure regulation (4...20 mA)
 - redundancy of the boosters
 - monitoring of each booster

















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Emergency- Support Systems for Mechanical Fluid Seals

- Mobile design
- 30 liter tank stainless steel
- Operating panel with pressure indication and regulation



