

Automatic Supply Systems AVS

Advanced Process Solutions

Description

Systems for liquid pressure supply of mechanical seals and gearboxes. Permanent monitoring of all relevant system parameters, e.g. pressure, temperature, flow rate and liquid level. Guarantee for safety, reliability and comfort.

Applications e.g.

- Bulk chemicals
- Polymers
- Specialty chemicals
- Hydrometallurgy

Certificates

- Certification for use in explosion proof zones acc. 2014/34/EU Zone 1 IIC T4
- Certification acc. API 614 (Oil supply systems)

Operating Conditions

- Ambient temperatures: -40°C...50°C
- Pressure: up to 200 bar

Service

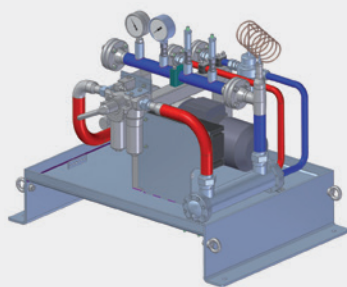
Worldwide service net

- Maintenance
- Spare parts
- Commissioning
- On-site staff training





Automatic seal supply system
refill, flushing/emergency, cooling



Gearbox oil supply system
compact



Gearbox oil supply system
standard

Automatic seal supply systems

Refill system

Automatic refill of sealing liquid for leakage compensation of the mechanical seal, instead of using handpumps.

Cooling system

Closed water cooling system with circulation pumps and heat exchanger for high process temperatures.

Flushing system

High pressure flushing system against scaling, bonding and abrasion inside the mechanical seal, for a maximum of service life, with a minimized consumption of a product compatible liquid.

Emergency system

High pressure back-up pump system to ensure continuous operation in case of a serious seal leakage. Uncontrolled release of product to the atmosphere is not possible.

Gearbox oil supply systems

- Automatic pump system for cooling and filtering of the gearbox oil
- Redundant equipment and instruments for extra reliability
- Skid mounted at gearbox or stand-alone

Compact	Standard
Fixed at gear box or separate line-up	Separate line-up
10 bar working pressure	10...40 bar working pressure
8...40 l/min flow	20...250 l/min flow
3...15 kW cooling capacity	10...100 kW cooling capacity
In-line filter	Double switching filter
Bundle heat exchanger	Storage vessel (optional)
Thermostatic valve	Redundant parts:
Instruments	Bundle heat exchanger
	Thermostatic valve
	Instruments
	Pumps

Documentation (all systems)

- Factory acceptance test (FAT)
- P&IDs
- Logical diagram
- Interlock lists
- Operation manual
- Conformity declaration