

GEHO®
Positive Displacement Slurry Pumps

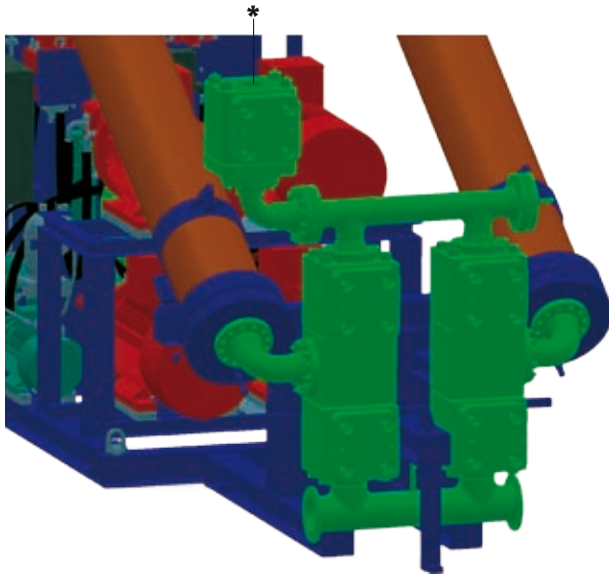
Excellent
Minerals
Solutions



**Key features of the GEHO® APEXS hydraulic driven
hose diaphragm pump**



Key features and benefits of the GEHO® APEXS hydraulic driven hose diaphragm pump

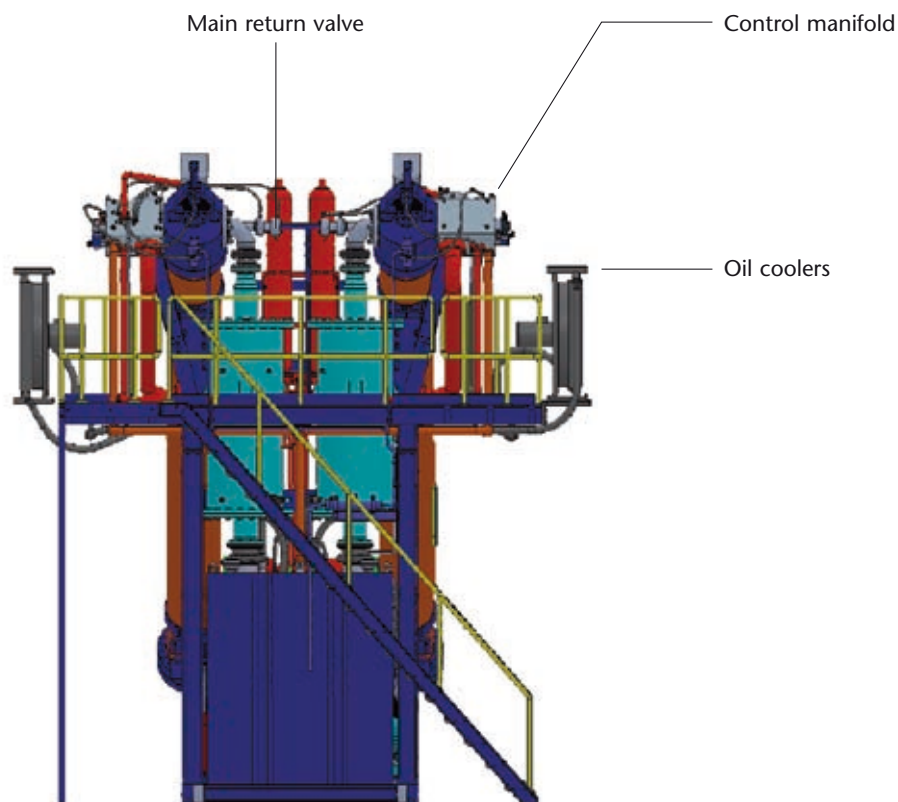


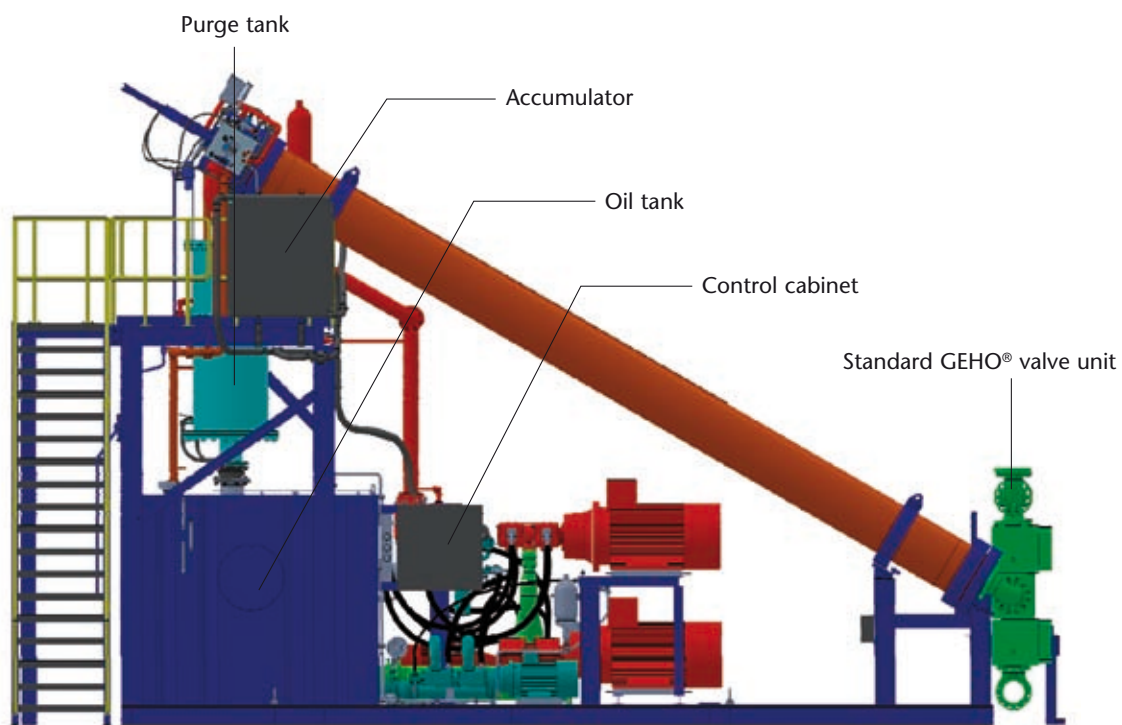
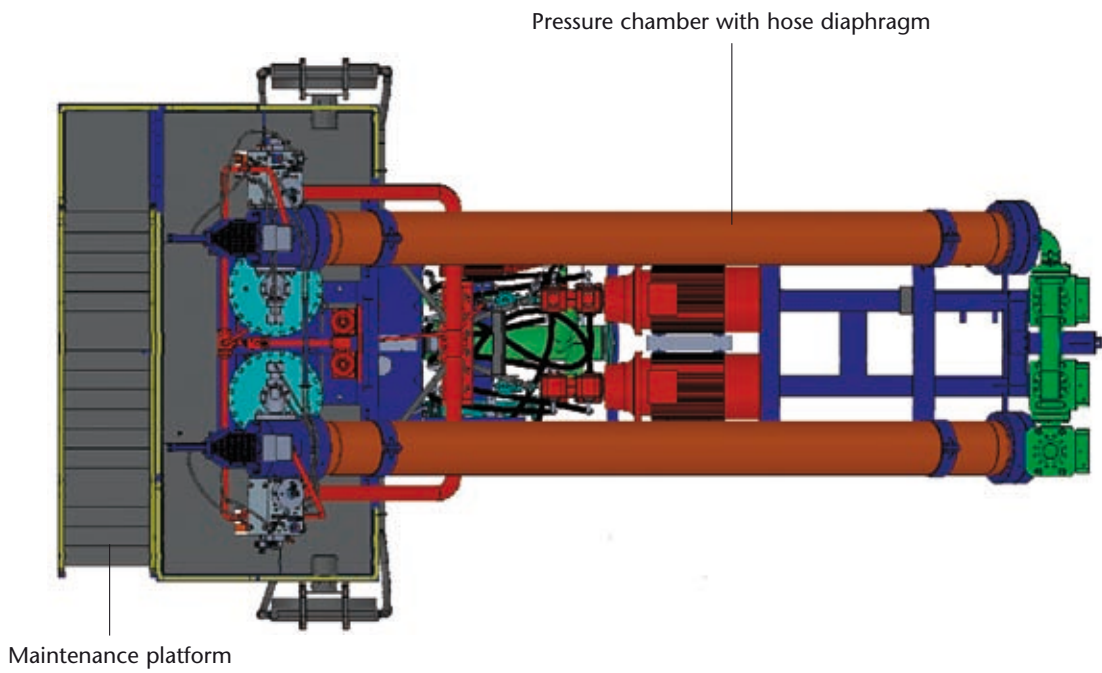
Pump check valve assembly

- Originates from the GEHO® standard range
- Available in a range of sizes and pressure ratings
- Modular and compact design
- In-line flow through
- Can house various valve styles, like ball, cone, Up-time and Outlast
- Slurry flows from bottom to top
- Features easy hydraulic tensioning and releasing bolting
- Features easy hydraulic disassembly of valve seat

*Special feature

- Mine dewatering with non-return valve optional
- Capable to handle static load





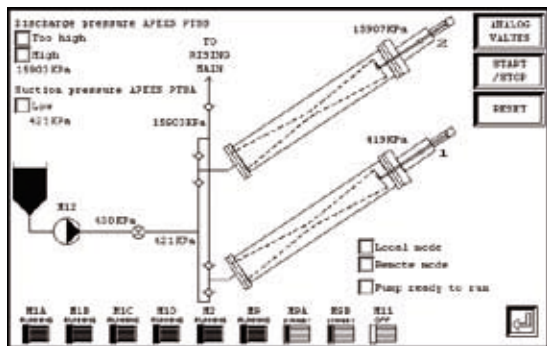


Hose diaphragm chamber

- Acts as pump chamber
- Slurry feed and discharge at the bottom position
- Hose diaphragm is axial guided at top position
- Chamber top is automatic de-aerated
- Sensor guard oil quality

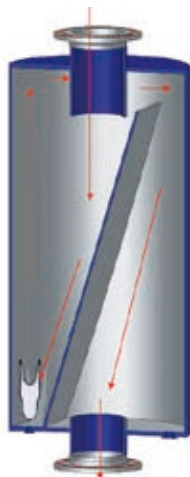
GEHO hydraulic power pack

- Smallest possible foot print with optimized access for maintenance requiring components
- Optimized hydraulic component life
- Reputable component supplier with worldwide services network
- Designed to operate without dampening devices
- Oil quality checked continuously
- Control manifold simplifies overall unit layout



Embedded PLC control

- Supervisory PLC control panel
- Specifically designed and developed for the APEXS control function
- GEHO® brand
- Local / remote control standard
- Common DCS communication provided
- Maintenance support with signal recording
- Operator graphic interface
- Digital pump manual on board



Purge tank

- Captures possible water ingress
- Functions as pre-settling device
- Conductivity switches to detect presence of water

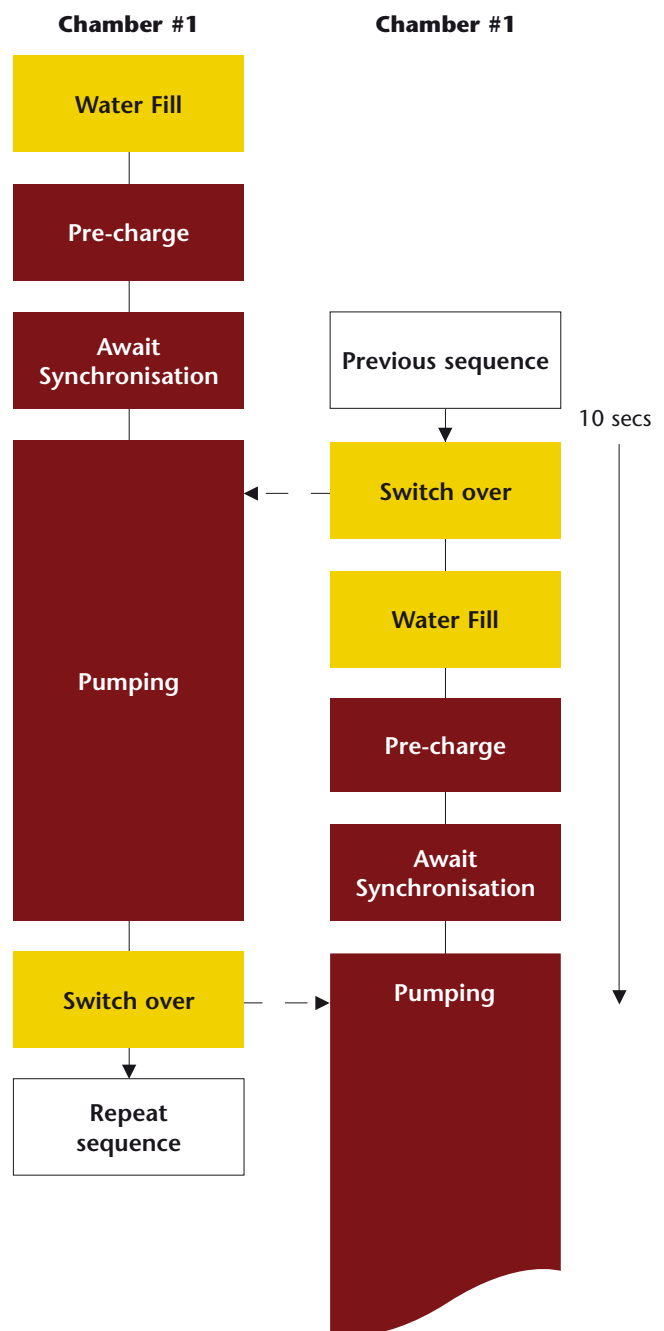
General features

- Hydraulically operated
- Primarily commercially available parts
- Two cylinder, single-acting design
- Standard reinforced hose diaphragm
- Requires forced feed
- Ultra low stroke rate (3-5 SPM)
- Operates without the need for dampening devices
- Favorable operating costs, low in wear parts usage
- High efficiency

Benefits

- Minimum foundation required
- Short delivery time
- Available knowledge of hydraulic systems in mining
- Beneficial total cost of ownership
- Modular construction to meet under ground transport restrictions
- Reliable and high availability, up to 98%

Operating stroke sequence



Typical references



Kanowna Belle - Barrick Gold mine

Western Australia
105 bar, 80 m³/h
1 pump, previous system standby
Pump commissioned 2003



Telfer - Newcrest mining Gold Mine

Western Australia
140 bar, 172.8 m³/h
3 pumps, 2 operating & 1 standby
Pump commissioned 2005



Golden Grove - Oxiana Ltd Base Metal Mine

Western Australia
90 bar, 172.8 m³/h
1 pump, previous system standby
Pump commissioned mid 2006

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