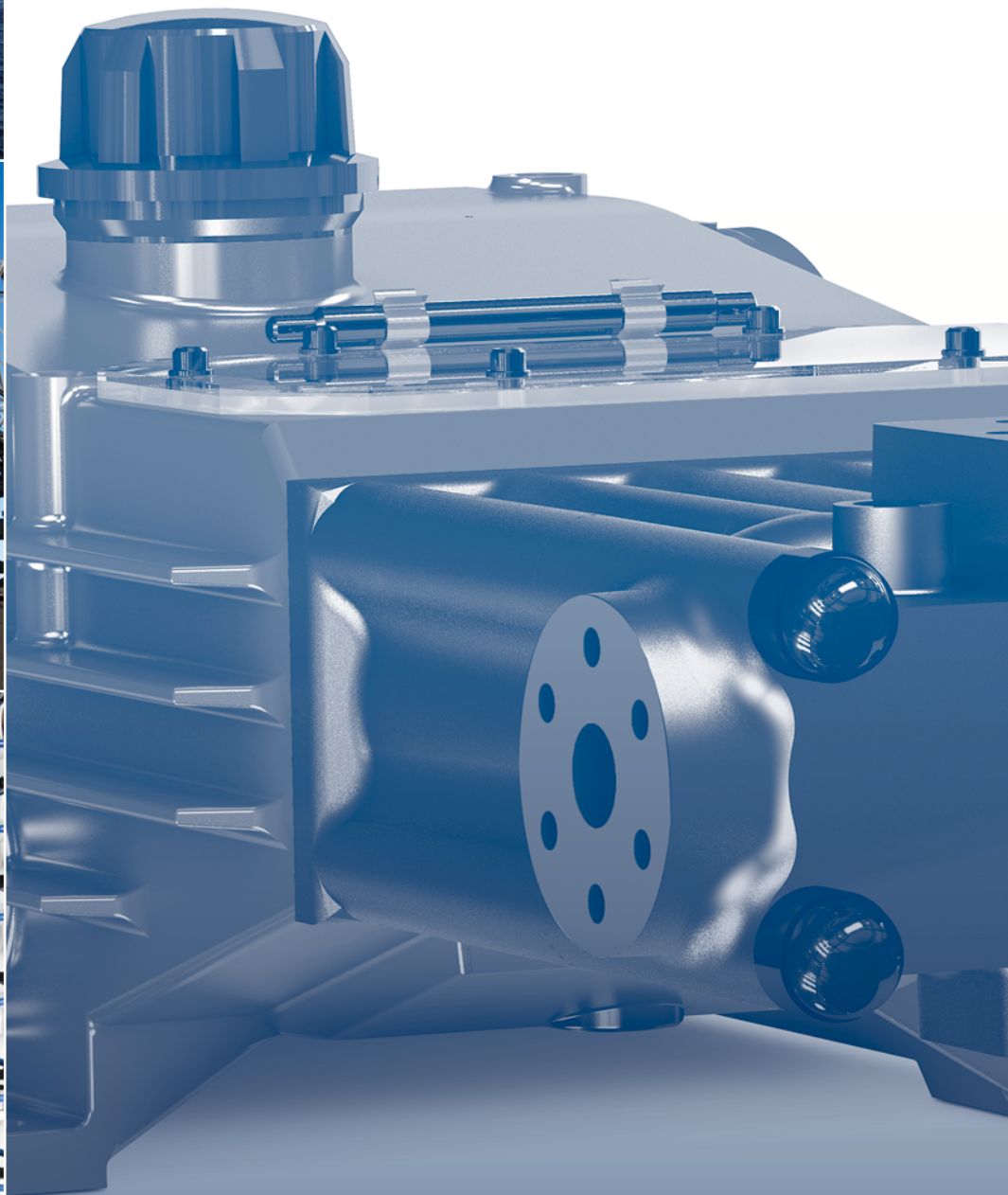




**RAM PUMPS**

Meeting The Toughest Challenges



# 50 VHP SERIES

Triplex Plunger Pumps



## Quality Products, Exceptional Customer Service

RAM Pumps Ltd.'s portfolio of Triplex & Quintuplex pump packages are designed and manufactured to the highest degree of precision to ensure total reliability and durability is maintained throughout our range.

RAM Pumps design is in full compliance to API674 along with most industry standards including, ISO 9001/2008, ATEX, EC P.E.D., NACE, Norsok, and GOST. These standards are rigorously maintained to ensure complete inclusion into the most arduous and demanding applications worldwide.

RAM Pump's commitment to flexible design and scope conformance has supported the evolution of a truly comprehensive supply. Including such auxiliary options as:

- Self-driven lubrication systems for both drive and seal arrangements.
- Condition monitoring to customer expectation and specification
- Multiple drive options and adaptations
- Direct mounting of dampers, PVS's etc. to the process fluid end for maximum effectiveness.

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## Common Applications Include:

### Oil and Gas

Glycol Injection or  
Regeneration  
Methanol Injection  
Hydrocarbon Condensate  
Hydro Test

### Water Production

Drill Cutting Re-Injection  
Miscible Gas Injection  
Fracking  
Liquid Condensate  
Injection

### Reverse Osmosis

Desalination  
Food Processing  
Pharmaceuticals

### Industrial

Water Jetting  
De-Scaling  
Boiler Feed



# Quality Focused Design and Manufacturing

High quality taper roller bearings ensure extended operation and improved load transfer with the ability to accommodate higher axial forces

Precision ground and hardened carbon steel crankshaft designed for continual service

Solid valve arrangements with specific process wetted material selection

Fluid head castings and materials all supplied from UK & European foundries operating to ISO, ABS, LR and DNV Standards

Splash & submersion lubrication or forced drive lubrication options available

Packing sets are designed for each specific operation. Additional options can be incorporated including:

- Packing lubrication
- Seal flush
- Self energising seal sets
- Leak detection and monitoring

Plungers are hard-faced Ni-Cr coated for sustained operation at varying temperatures, extending packing life whilst minimizing corrosion. Additional materials available to meet application requirements

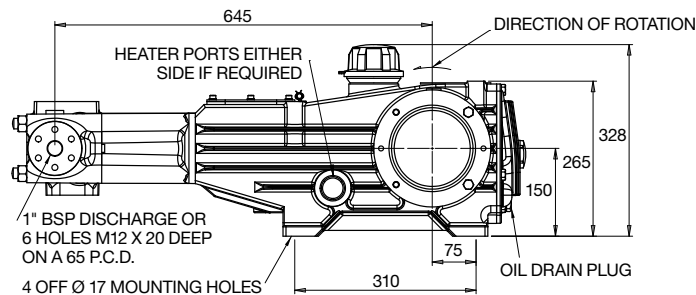
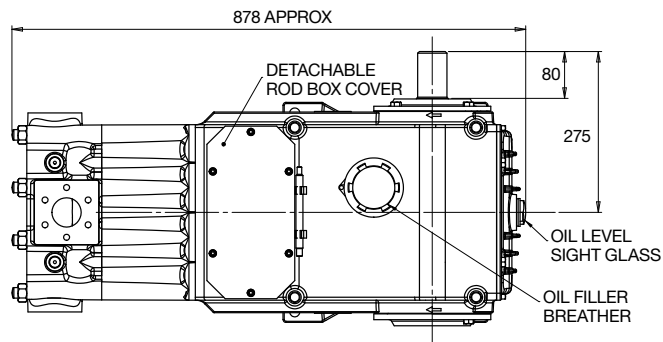
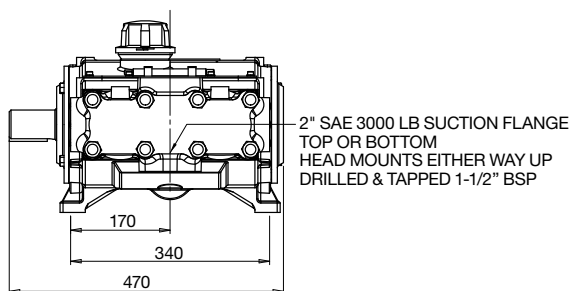
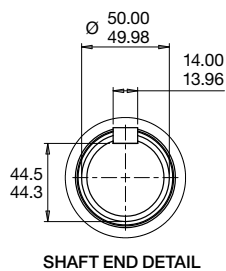
## RAM 50 VHP PERFORMANCE

Bore	Stroke	Max RPM (API)	Max RPM (Non API)	Max Flow (API) lpm / gpm	Max Flow (Non-API) lpm / gpm
35	65	420	600	75 / 19.8	107 / 28.3
30	65	420	600	55 / 14.5	79 / 20.8
25	65	420	600	38 / 10.1	55 / 14.4
20	65	420	600	24 / 6.5	35 / 9.2

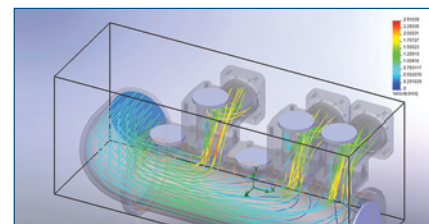
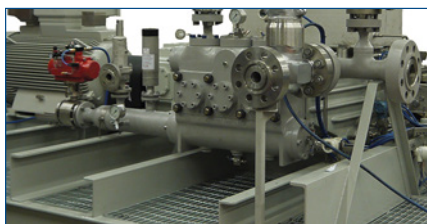
MAXIMUM PRESSURES (BAR G)		
Material	BAR G	PSI
Carbon Steel WCB	563	8,166
Carbon Steel Gr 90 60	1599	23,191
316 Stainless Steel	493	7,150
Duplex 22% CR	947	13,735
Super Duplex 25% Crome	935	13,561
Inconel 625	1003	14,547

\*Maximum absorbed power rating for the Ram 50 VHP Series is 45 kW – Please ensure specific application data is calculated to determine maximum absorbed power required.

# Dimensional Drawing



## Standard Supply Scope



### Packaged Equipment

- Motors & Drives
- Diesel / Gas Engines
- Transmission
- Structural Fabrication
- Pulsation Management
- Valves & Filtration
- Instrumentation
- Electrical Control
- Lubrication Systems
- VSD / VFD Units
- PLC Control Systems
- Heating & Cooling
- Specialist Painting

### Inspection & Testing

- Material Certification 3.1, 3.2
- Hydrostatic Testing
- Performance Testing
- Mechanical Testing
- NDE - PMI, UT, DP, RT, MPI
- NPSH Testing
- Pulsation Analysis API674
- Mechanical Response Analysis
- ISO 9001 2008 Accredited
- ISO 14001 Accredited
- Supply to ABS, DNV, LR, KR
- Supply to NORSOK Standards
- NACE Compliance

### Project Services

- Dedicated Project Teams
- In House 3D Design
- FEA Analysis Verification
- Comprehensive Project Documentation
- Automated Document Tracking
- TPI Support Service
- Global Commissioning Service
- On Site Testing Verification
- Onshore / Offshore Engineering Support
- Aftersales & Support Network
- Global Representation
- Comprehensive Warranty Scheme
- Global Logistics Support

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