

Verdermag Global Style 1 125 series



GENERAL	125
Horizontal End-Suction centrifugal pump	
Centerline discharge	
Mag-drive	
Synchronous coupling	
Back-pull out design	
Maximum possible temperature:	205 °C
Minimum possible temperature	-100 °C
Maximum discharge pressure:	19 bar
Slurry:	max 5% wt.; size: max. 250 µm
Maximum diameter solids:	0.5 mm
Minimum flow:	10% of maximum efficiency flow
Maximum viscosity:	150cPs
Maximum power transmission:	4kW

Casing

- Top centerline discharge, self venting
- Stainless steel 316 S11 fabricated construction
- Case mounted directly to pedestal (no feet)
- Flanges: Standard – Combined PN16 / ANSI 150#
- Optional
- BS 4504 (ISO 2084-1974) Class PN16
- BS 1560 (ANSI/ASME B16.5) Class 150
- BS 1560 (ANSI/ASME B16.5) Class 300
- Casing drain connection optional extra

Impeller

- Closed type
- Stainless steel CF8M cast construction or fabricated 316 S11
- Bored and keyed to suit standard Global pump shafts

Inner Magnet – Pump Shaft

- Stainless steel 316 S11 internal pump shaft
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316 sheat
- Coupled to impeller by key, washer and locking nut
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

Outer Magnet

- Mild steel outer magnet ring with resin filler and protective rings surrounding magnets
- Mounts directly to motor shaft by self centering taper lock adapter and bush

Backplate Containment Tube

- Stainless steel 316 S11 construction, with Hastelloy containment tube, for reduced eddy current generation
- Separate bearing holder, with flow induction holes for bearing lubrication
- Bolts directly to case, and allows for quick cartridge replacement

Bearings

- Single front bearing pump with rear thrust ring
- Silica free silicon carbide front bearings fitted as standard
- Fluoroscint rear thrust ring supplied as standard – (Full Silica free silicon carbide rear bearings optional)
- Bearings are press fit onto elastomers O-rings – allowing:
 - Thermal shock absorption
 - Easy maintenance



Verdermag Global Style 1



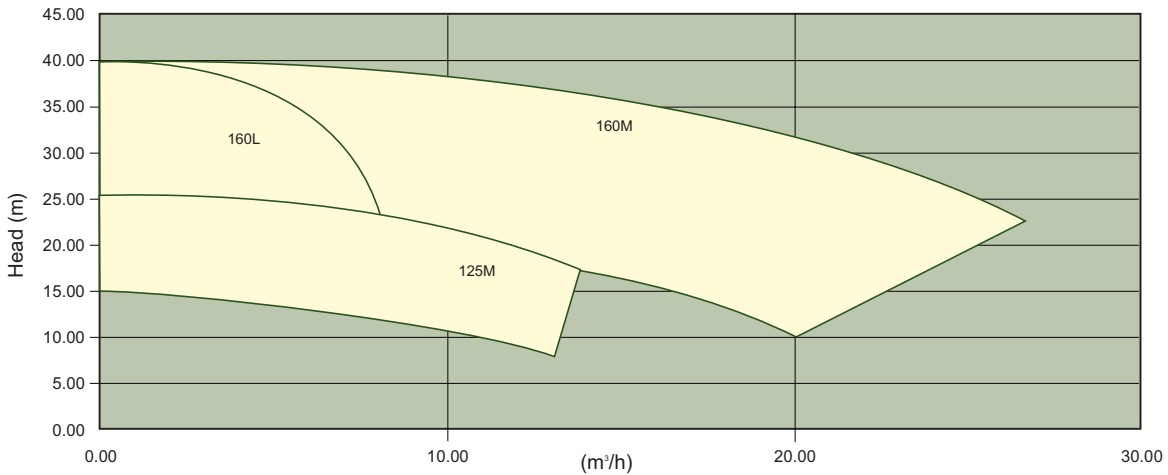
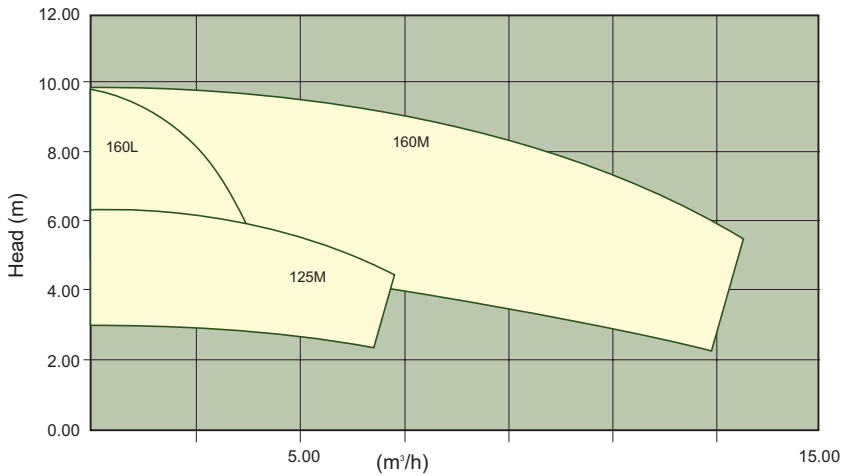
VERDERMAG GLOBAL

Magnet Coupling

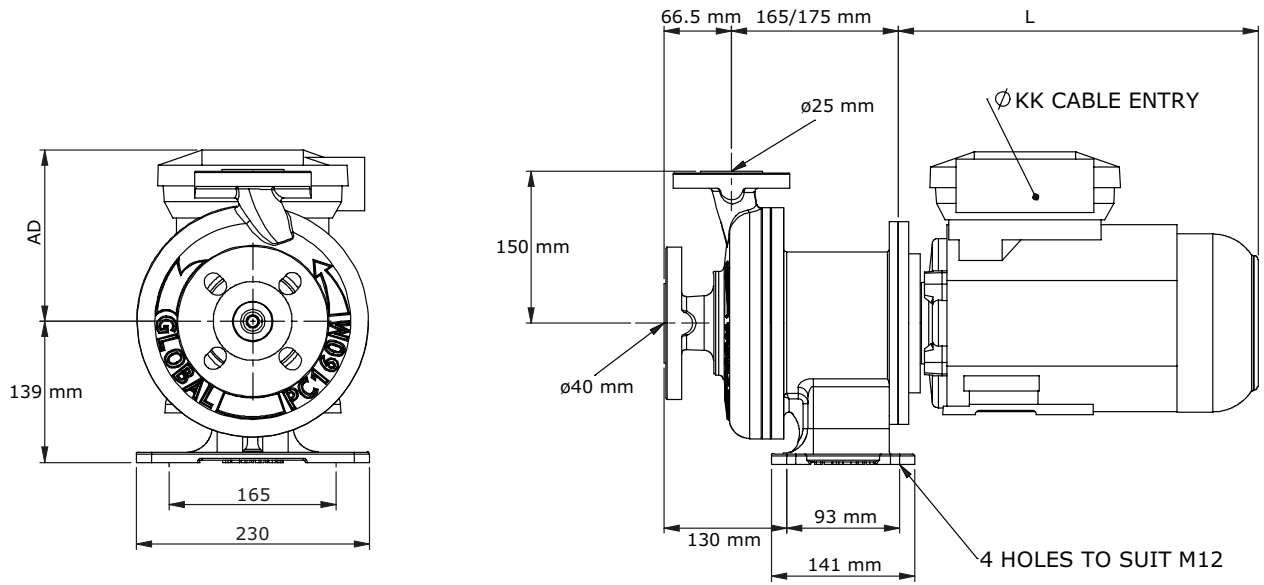
- Rare Earth Samarium Cobalt high temperature grade magnets
- Synchronous, no slippage, low losses
- Eliminates need for soft starter devices

Close Coupled Bracket

- Provides metal to metal fit to casing / backplate
- Central foot mounting for simple installation
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors – To suit 80 / 90 frame (100/112 adapter option)
- NEMA available on request



Verdermac Global Style 1



*Dimensions AD and L are subject to change based on motor specification.
Please contact us for more information*

VM_Global_Techno_Rev01_2012_UK_(eu)

**Find your local supplier
at www.verderglobal.com**



Verdermag Global Style 1 160 series



GENERAL		125
Horizontal End-Suction centrifugal pump		
Centerline discharge		
Mag-drive		
Synchronous coupling		
Back-pull out design		
Maximum possible temperature:	205 °C	
Minimum possible temperature	-100 °C	
Maximum discharge pressure:	19 bar	
Slurry:	max 5% wt.; size: max. 250 µm	
Maximum diameter solids:	0.5 mm	
Minimum flow:	10% of maximum efficiency flow	
Maximum viscosity:	150cPs	
Maximum power transmission:	4kW	

Casing

- Top centerline discharge, self venting
- Stainless steel 316 S11 fabricated, or 316 C16 cast construction
- Case mounted directly to pedestal (no feet)
- Flanges: Standard – Combined PN16 / ANSI 150# - Optional
- BS 4504 (ISO 2084-1974) Class PN16
- BS 1560 (ANSI/ASME B16.5) Class 150
- Casing drain connection optional extra

Inner Magnet – Impeller / Pump Shaft

- Closed type impeller with integral pump shaft
- Stainless steel 316 S11 fabricated construction/ CF8M cast
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316 sheath
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

Outer Magnet

- Mild steel outer magnet ring with resin filler and protective rings surrounding magnets
- Mounts directly to motor shaft by self centering taper lock adapter and bush

Backplate Containment Tube

- Stainless steel 316 S11 construction, with Hastelloy containment tube, for reduced eddy current generation
- Integral shaft for mounting static bearing components
- Separate bearing holder for mounting static bearing components
- Bolts directly to case, and allows for quick cartridge replacement

Bearings

- Single front bearing pump with rear thrust pins
- Silica free silicon carbide front bearings fitted as standard
- Fluoroscint rear thrust pins (3 pins fitted directly into the endcap of the containment tube) supplied as standard
- Bearings are press fit onto elastomers O-rings – allowing:
 - Thermal shock absorption
 - Easy maintenance

Magnet coupling

- Rare Earth Samarium Cobalt high temperature grade magnets
- Synchronous, no slippage, low losses
- Eliminates need for soft starter devices



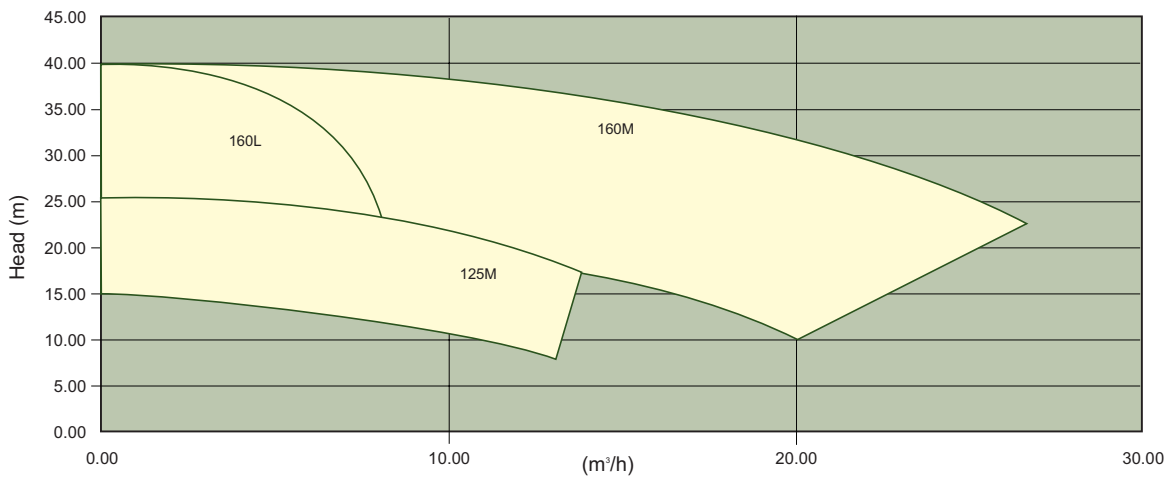
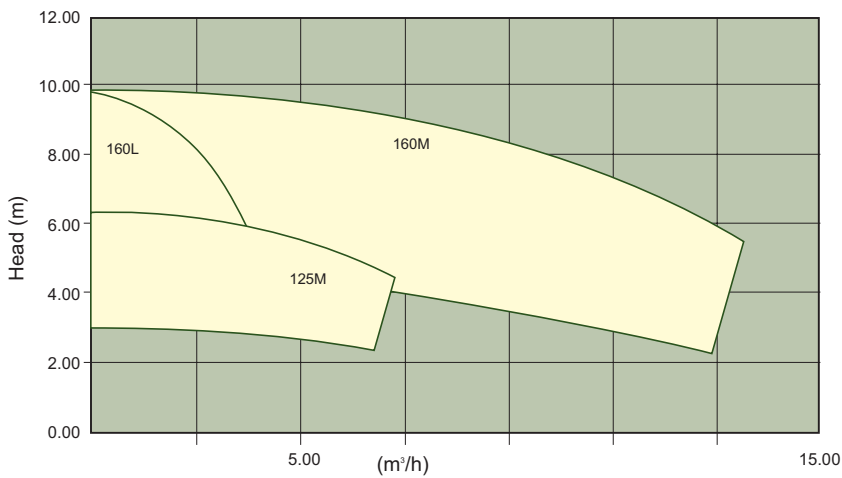
Verdermag Global Style 1



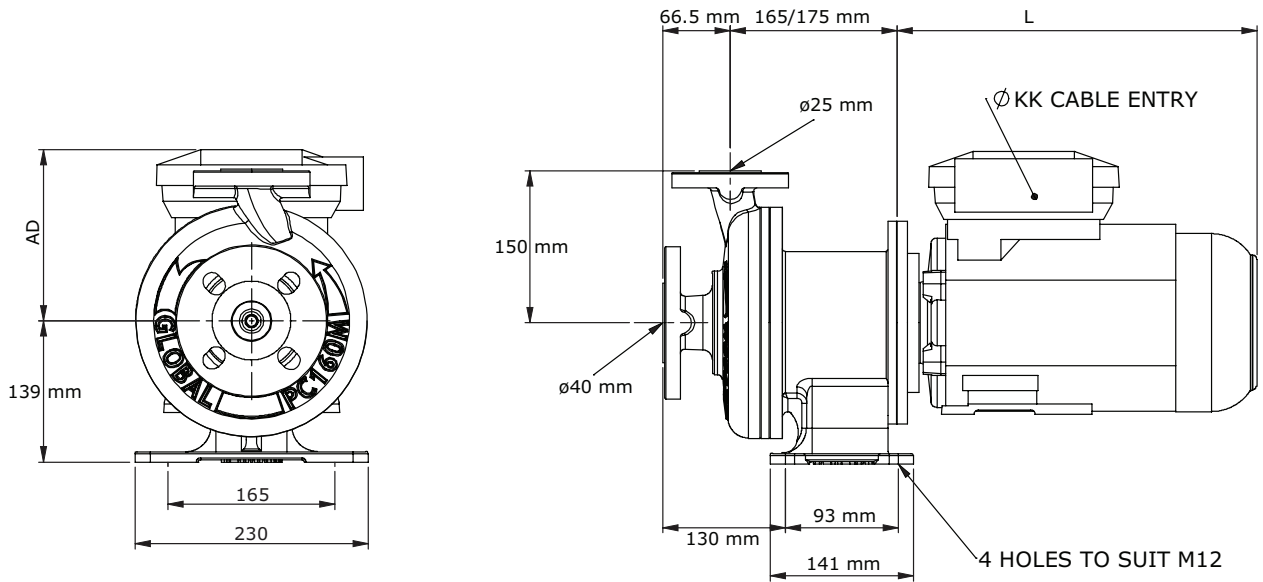
VERDERMAG GLOBAL

Close Coupled Bracket

- Provides metal to metal fit to casing / backplate
- Central foot mounting for simple installation
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors – To suit 80/90 frame (optional adaptor fitted with 100/112 frame also available)
- NEMA available on request



Verdermac Global Style 1



*Dimensions AD and L are subject to change based on motor specification.
Please contact us for more information*

**Find your local supplier
at www.verderglobal.com**

Verdermag Global MII



GENERAL

Horizontal End-Suction centrifugal pump

Centerline discharge

Mag-drive

Synchronous coupling

Back-pull out design

Maximum possible temperature: 205 °C

Minimum possible temperature -100 °C

Maximum discharge pressure: 19 bar

Slurry: max 5% wt.; size: max. 250 µm

Maximum diameter solids: 0.5 mm

Minimum flow: 10% of maximum efficiency flow

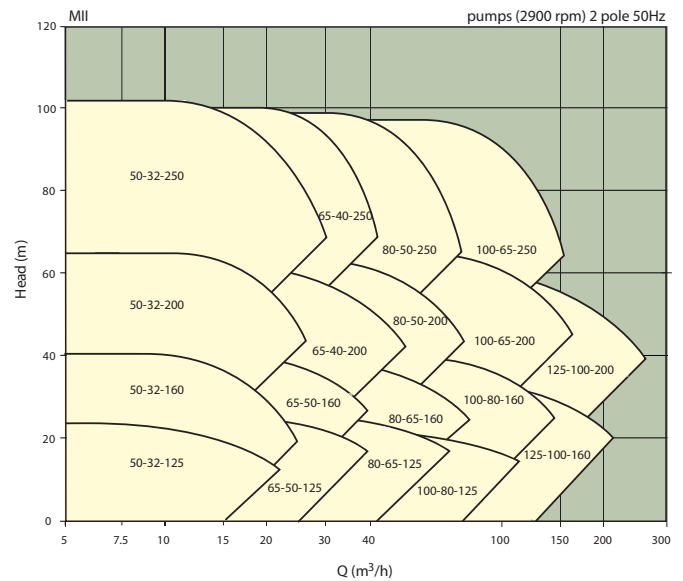
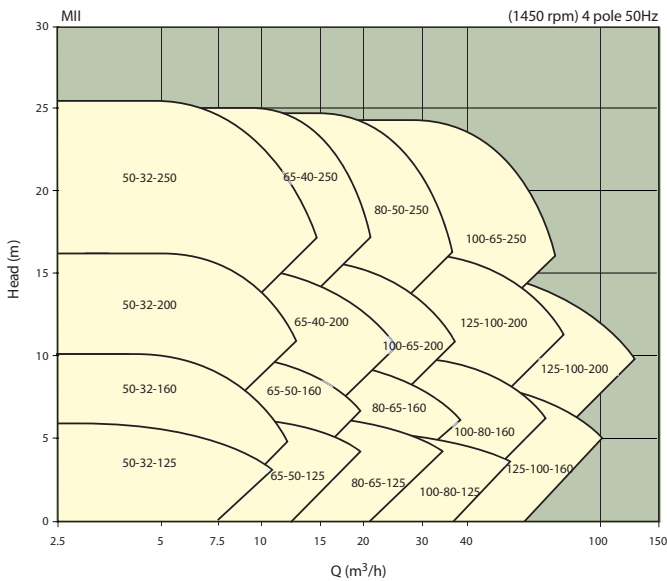
Maximum viscosity: 150cPs

Maximum power transmission: 30kW

Casing

- Meets ISO2858 : 1975, BS EN 22858 : 1993 dimensions for flange and foot position
- Top centerline discharge, self venting
- One piece solid cast stainless steel 316C16/CF8M construction
- Foot supported for maximum resistance to distortion from pipe-loads

- Flanges: Standard – BS 4504 (ISO 2084-1974) Class PN16
- Optional: Combined PN16 / ANSI 150# BS 1560 (ANSI/ASME B16.5) Class 150
- Casing vent & drain connection standard



Verdermag Global MII



Impeller

- Closed type, one piece construction
- One piece solid cast stainless steel 316C16/CF8M construction
- Bored and keyed to suit standard Global pump shafts

Inner magnet – pump shaft

- Stainless steel 316L internal pump shaft
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316L sheath
- Coupled to impeller by key, dome nut and locking tab washer
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

Outer magnet

- Mild steel outer magnet ring with resin filler and protective rings surrounding magnets
- Mounts directly to motor shaft by self centering taper lock adapter and bush

Backplate

- Stainless steel 316/CF8M construction
- Sandwich design for easy replacement of cartridge
- Integral front bearing holder
- Integral flow holes to ensure consistent lubrication as liquid flows from high pressure area of casing to low pressure area around the front bearings
- Flange connector for containment tube, suitable for several size of mag-drive ends

Containment tube

- Stainless steel 316L/CF3M construction, with Hastelloy containment tube, for reduced eddy current generation
- Integral rear bearing holder, with washer and locking nut

Bearings

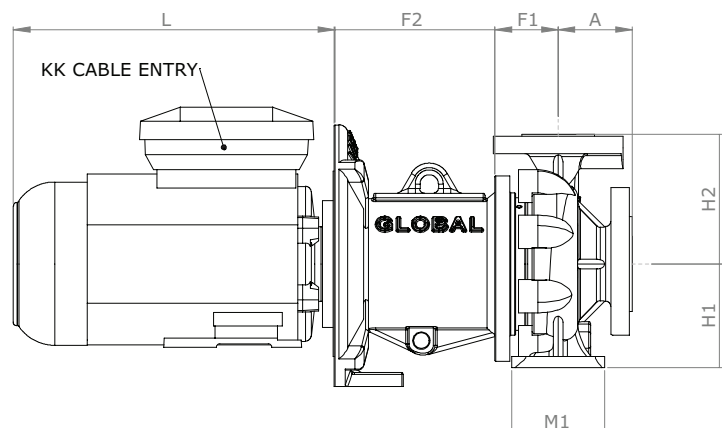
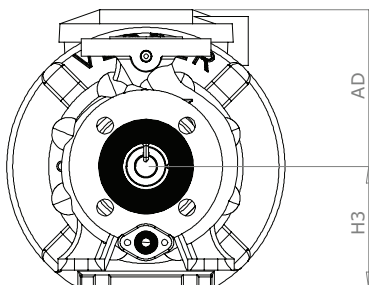
- Silica free silicon carbide front and rear bearings fitted as standard
- Bearings are press fit onto elastomers O-rings – allowing:
 - Thermal shock absorption
 - Easy maintenance

Magnet coupling

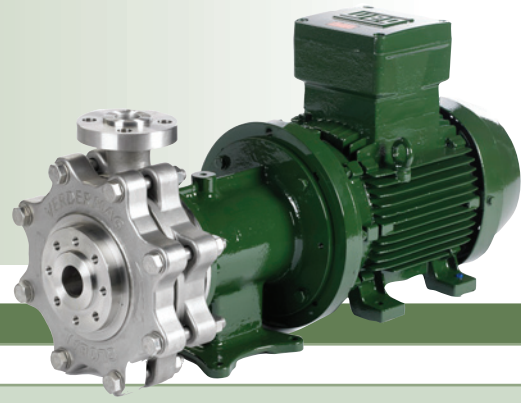
- Rare Earth Samarium Cobalt high temperature grade magnets
- Synchronous, no slippage, low losses
- Eliminates need for soft starter devices

Close coupled bracket

- Provides metal to metal fit to casing
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors to suit frame sizes from 100 - 225
- NEMA available on request



Verdermag Global HP



GENERAL

Horizontal End-Suction centrifugal pump

Centerline discharge

Mag-drive

Synchronous coupling

Maximum possible temperature: 205 °C

Minimum possible temperature -100 °C

Maximum discharge pressure: Up to 200bar based on design

Slurry: max 5% wt.; size: max. 150 µm

Maximum diameter solids: 0.5 mm

Minimum flow: 10% of maximum efficiency flow

Maximum viscosity: 150cPs (Subject to power limits)

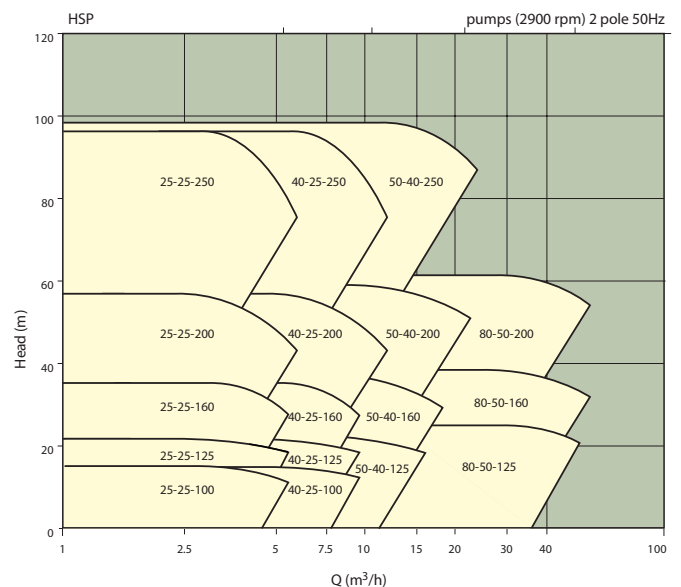
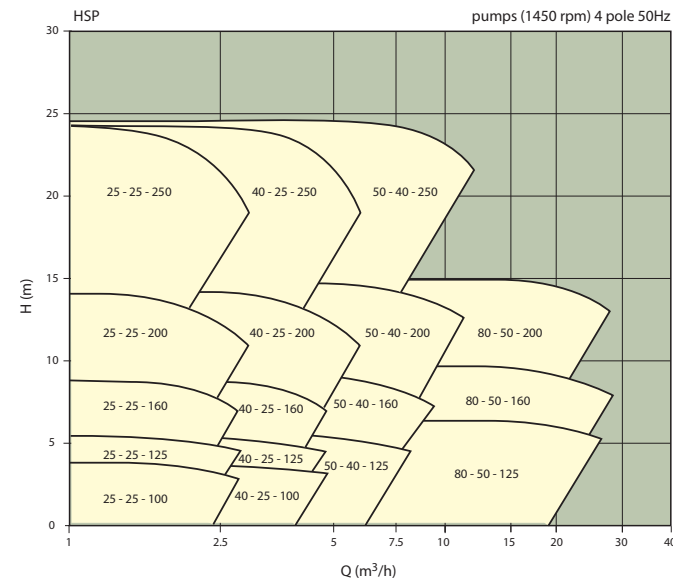
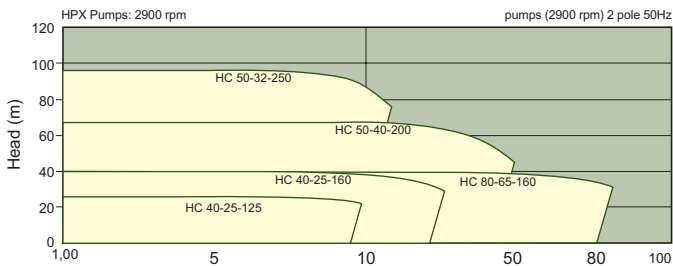
Maximum power transmission: 30kW based on design

Front cover

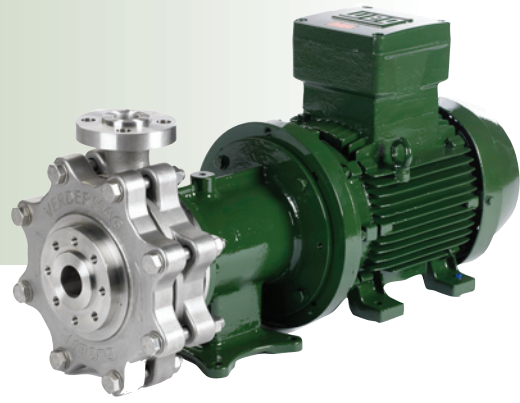
- Fabricated or cast in a range of metallic materials to suit project
- Flanges: BS 4504 (ISO 2084-1974) Class PN40, PN64, PN100 or PN160
- BS 1560 (ANSI/ASME B16.5) Class 300, 600, 900 or 1500

Casing

- Top centerline discharge, self venting
- Fabricated or cast in a range of metallic materials to suit project
- Case mounted directly to pedestal (no feet)
- Flanges: BS 4504 (ISO 2084-1974) Class PN40, PN64, PN100 or PN160
- BS 1560 (ANSI/ASME B16.5) Class 300, 600, 900 or 1500



Verdermag Global HP



Impeller

- Closed type
- Standard 316/CF8M construction (other materials available)
- Bored and keyed to suit standard Global pump shafts

Inner magnet – pump shaft

- Stainless steel 316L internal pump shaft (other materials available)
- Hollow shaft flow induction system
- Magnets fully encapsulated with tough 316L sheath
- Coupled to impeller by key, washer and locking nut
- Machined O-ring grooves, to carry rotating silicon carbide bearing components

Outer magnet

- Mild steel outer magnet ring with resin filler and protective rings surrounding magnets
- Mounts directly to motor shaft by self centering taper lock adapter and bush

Containment tube

- Hastelloy/Stainless or Inconel 625 construction as standard (other materials available)
- Separate bearing holder, with flow induction holes for bearing lubrication

Bearings

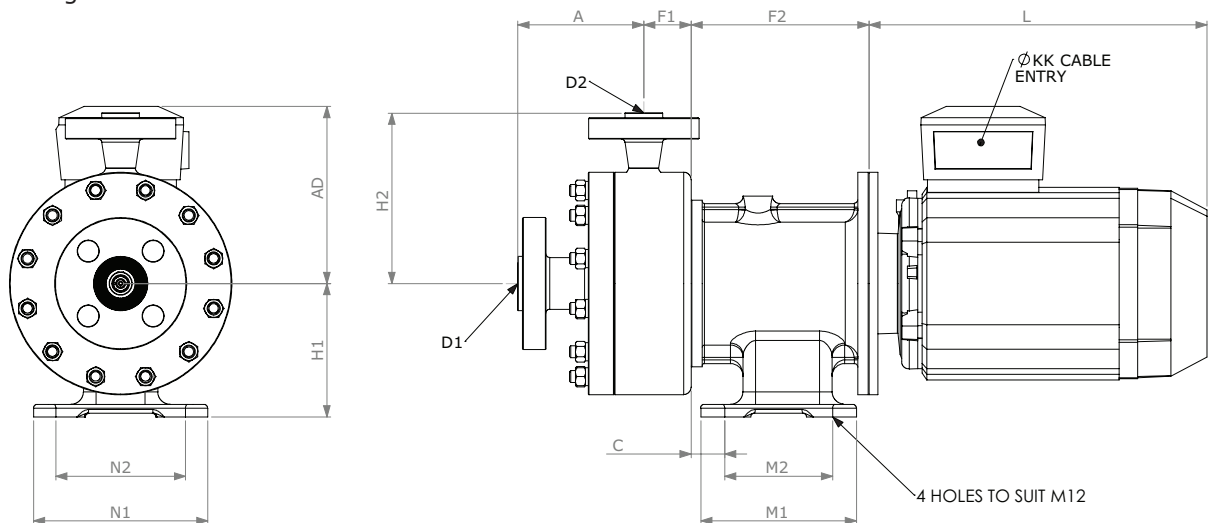
- Silica free silicon carbide front and rear bearings fitted as standard
- Bearings are press fit onto elastomers O-rings – allowing:
 - Thermal shock absorption
 - Easy maintenance
- Fluoroscint rear thrust ring supplied as standard on 100/125 frame models – (Full Silica free silicon carbide rear bearings optional)

Magnet coupling

- Rare Earth Samarium Cobalt high temperature grade magnets
- Synchronous, no slippage, low losses
- Eliminates need for soft starter devices

Close coupled bracket

- Provides metal to metal fit to casing / backplate
- Central foot mounting for simple installation
- Eliminates flexible coupling, bearing frame and alignment
- Utilises standard IEC motors – To suit frame sizes from 80 - 200
- NEMA available on request



VM_Global_Techno_Rev01_2012_UK_(eu)

Find your local supplier
at www.verderglobal.com

VERDER
passion for pumps