



HE POWER PACKS

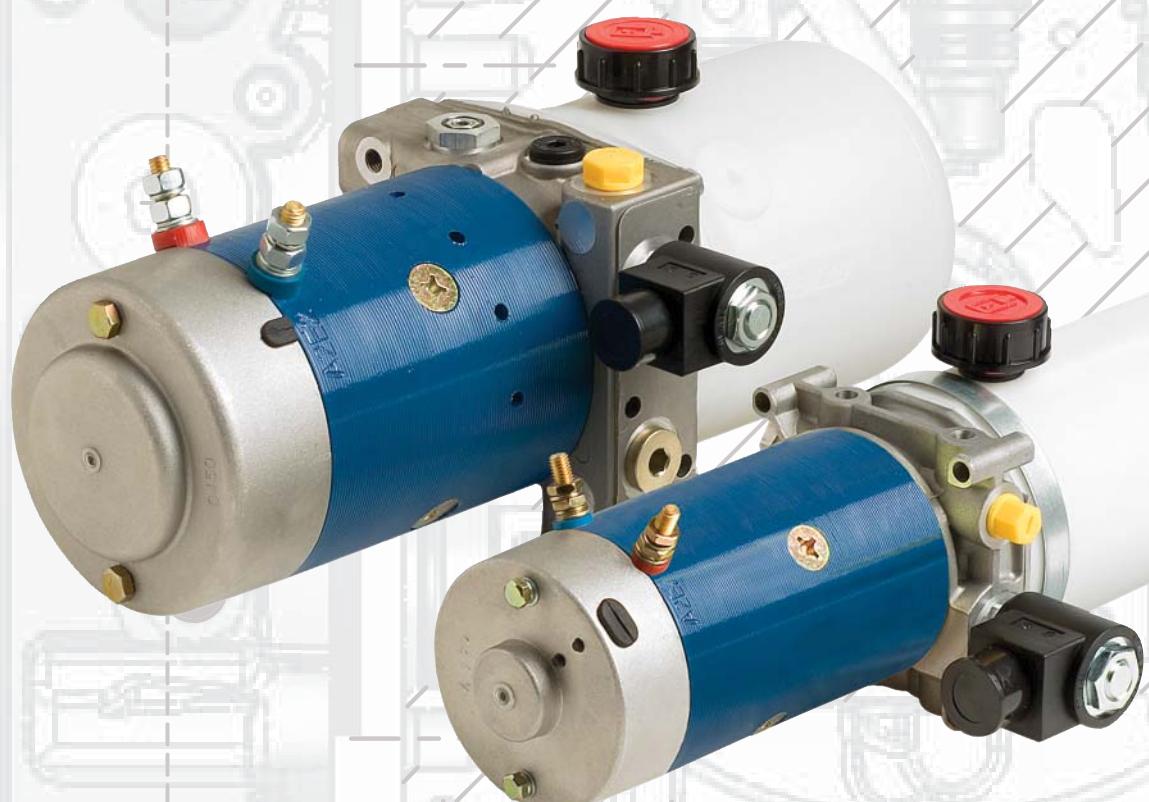
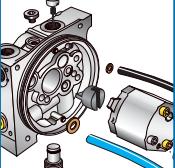
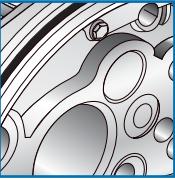
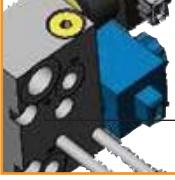
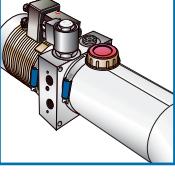


TABLE OF CONTENTS

	HE POWER PACK CONCEPT	4 - 5
	ADAPTOR He1000	6 - 7
	ADAPTOR He2000	8 - 9
	ADAPTOR He2200	10
	PUMPS AND DC MOTORS	11 - 18
	TECHNICAL INFORMATION AND HE BOX	19 - 23
	POWER PACK CODE KEY	24 - 26

The right to modifications for technical improvements is reserved.



THE POWER OF HE

Concentric (formerly Haldex) is one of the world's leading manufacturers of hydraulic power packs. In recent years, we have focused on strategically important markets, and the result is a new series of high performance hydraulic power packs. The HE series represents a further development of the universal technical platform developed by Concentric, worldwide.

HE Power Packs are optimized for demanding applications. They are designed for use in trucks operating in harsh climates, or for heavy materials handling with long service intervals. Applications that demand high performance and superb quality. We have also prioritized customers' wishes for greater flexibility and better cost-efficiency.

The result is an extremely versatile platform, which uses standard components and can handle most of the applications the market demands. It lets you cut your stock of hydraulic components down to a minimum and radically reducing the need for specially

developed components.

HE Power Packs make it easier to build short series of special applications cost efficiently.

Concentric (www.concentricAB.com), headquartered in Stockholm, Sweden, is an innovator in flow control and fluid power, supplying proprietary systems and components for trucks, buses and industrial vehicles, worldwide. With 1,156 employees and sales of 1,977 million Swedish Kronor, Concentric AB is listed on the Stockholm Stock Exchange.

The company operates globally and enjoys global advantages: secure supply lines, close contact with customers on development and a universal technical platform that will always fit your product -- no matter where in the world it is manufactured.

The New He2200 High Flow Adaptor

The He2000 has for many years been a success. The performance and flexibility together has created a wide customer base.

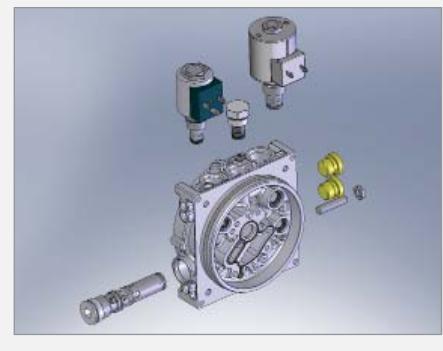
The need for more sophisticated systems at the same envelope size is one of the elements that is the basis for the He II adaptor.

Within the envelope size of an He2000 we have made it possible to integrate up to 3 cartridge valves for single acting, 2 x single acting or double acting functions directly into the adaptor without external manifolds.

Additionally, larger flow control valves can be mounted to accept higher return flows at eg lowering at high speed. The relief valve can easily be adjusted from the outside.

In the He2200 version, the pump and motor are equipped with splined drive shafts that improve the life of each, especially at applications with many starts and stops.

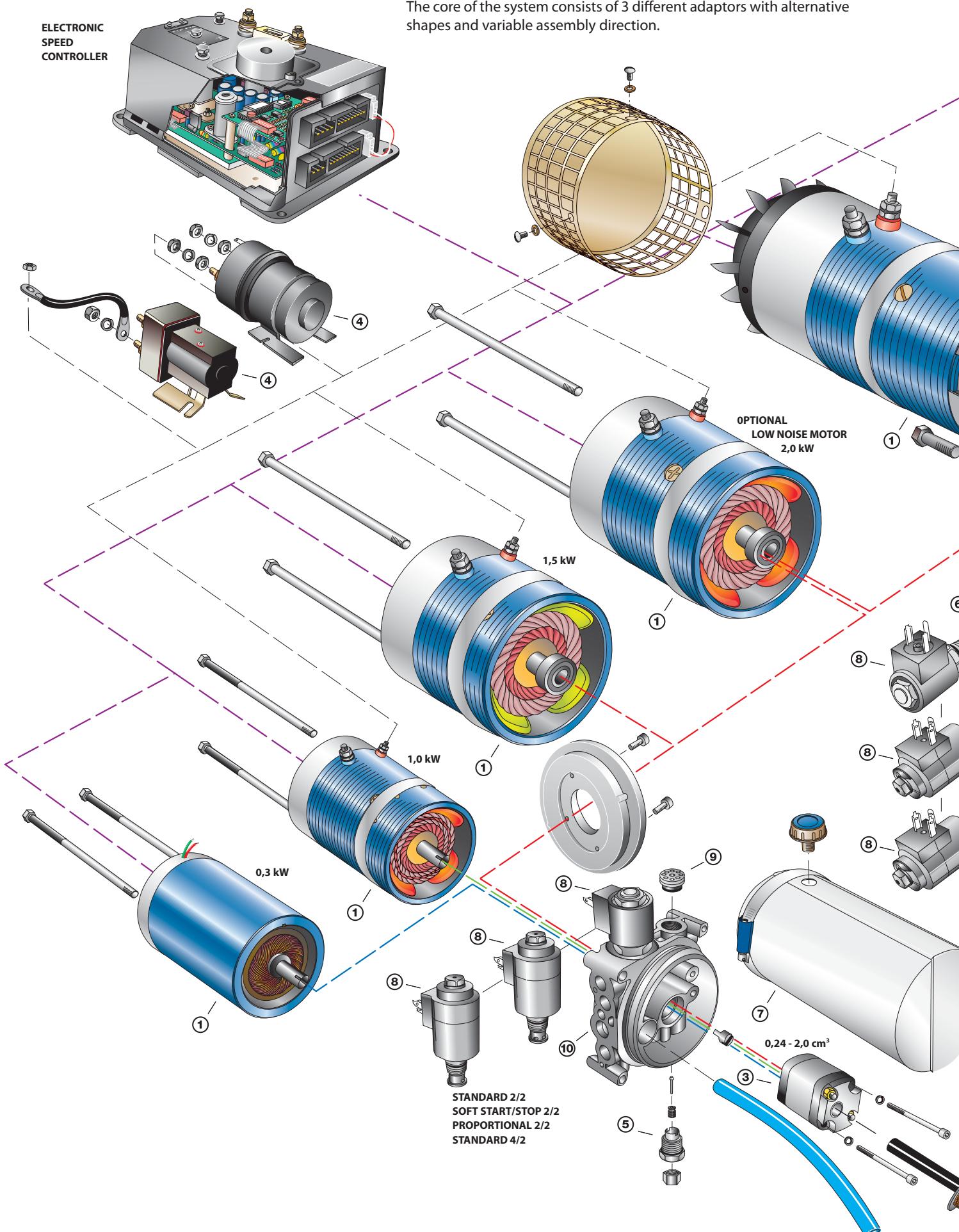
All in all, the He2200 offers a cost and space efficient solution and improved performance.



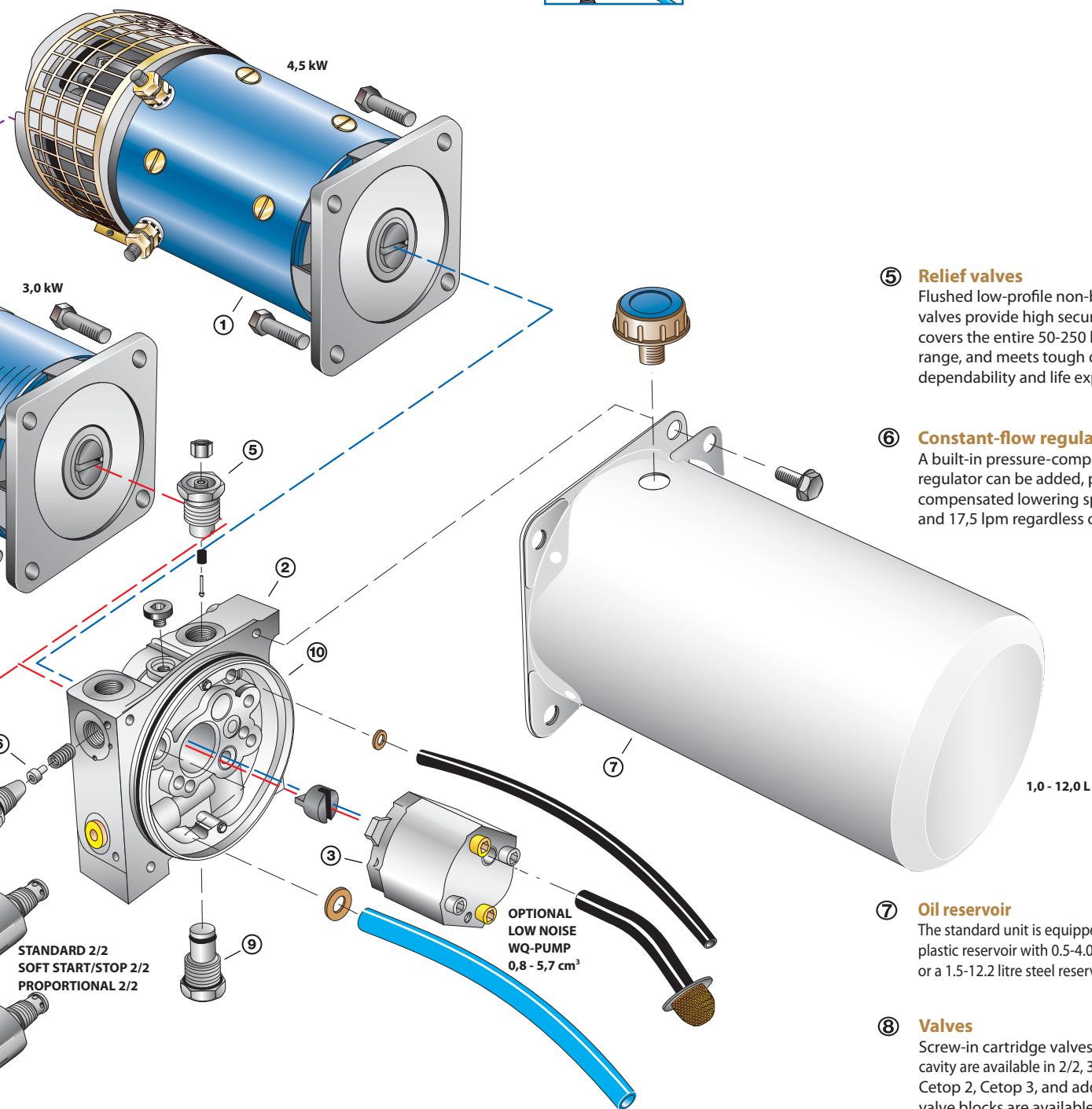
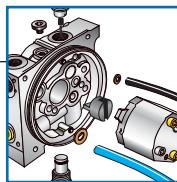
Pictures above are used with the kind permission of Scania and Jan Knodt.

HE POWER PACK CONCEPT

The HE Power Pack is based on a versatile platform that allows you to combine 80-134 mm motors (0.3-4.5 kW) with a variety of pumps (0.24-5.7 cc/rev). A unit can individually control several hydraulic cylinders. The core of the system consists of 3 different adaptors with alternative shapes and variable assembly direction.



He1000 / He2000 / He2200



① Motors

DC motors, 12/24/48 volt. Efficient motors with long service life, long service interval and low power consumption. Special **noise reduced motors (LSM)** available.

② AC Operation

Flanges for 71/80/91/100 B14 AC motors permit the installation of motors rated at 0.25-4 kW/1500 rpm or 0.37-4 kW/2800 rpm. **AC mounting only with HE 2000 adaptor.**

③ Pump

Pressure-balanced gear pumps of our own design are extremely efficient, with low noise. Special **noise reduced pumps (WQ)** available.

④ Start switch

Start switch with high IP protection class and silverplated contacts meets tough demands for a long, problem-free service life.

⑤ Relief valves

Flushed low-profile non-blocking relief valves provide high security. One model covers the entire 50-250 bar setting range, and meets tough demands for dependability and life expectancy.

⑥ Constant-flow regulator

A built-in pressure-compensated flow regulator can be added, providing pressure compensated lowering speed between 2 and 17,5 lpm regardless of load.

⑦ Oil reservoir

The standard unit is equipped with a transparent plastic reservoir with 0.5-4.0 litre usable volume, or a 1.5-12.2 litre steel reservoir.

⑧ Valves

Screw-in cartridge valves with a standard cavity are available in 2/2, 3/2, or 4/2 versions. Cetop 2, Cetop 3, and additional cartridge valve blocks are available for up to 4 individual functions.

⑨ Check valve

⑩ Adaptors

Three different adaptors with two alternative mounting directions: the smaller He1000 adaptor, the larger He2000 and He2200.

The following pages contain more information on the HE power range. If you have any questions, please do not hesitate to contact our local sales office or distributor, or any of our factories.

HE ADAPTORS AND VALVES

- He1000
- He2000
- He2200

The HE series is based on three different adaptors with two alternative mounting directions: the smaller He1000 adaptor, the larger He2000, and the new He2200 High Flow.

The He1000 is designed for use with 80 mm and 112 mm motors.

Pump sizes: 0.24-2.0 cc/rev.

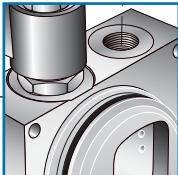
The He2000 is designed for use with 112 mm, 125 mm and 134 mm motors.

Pump sizes: 0.8-5.7 cc/rev.

The He2200 High Flow is designed for use with 112 mm, 125 mm and 134 mm motors.

Pump sizes: 0.8-5.7 cc/rev.

With the HE 1000, 2000 and 2200 adaptors, the unit can be used as a pump motor unit



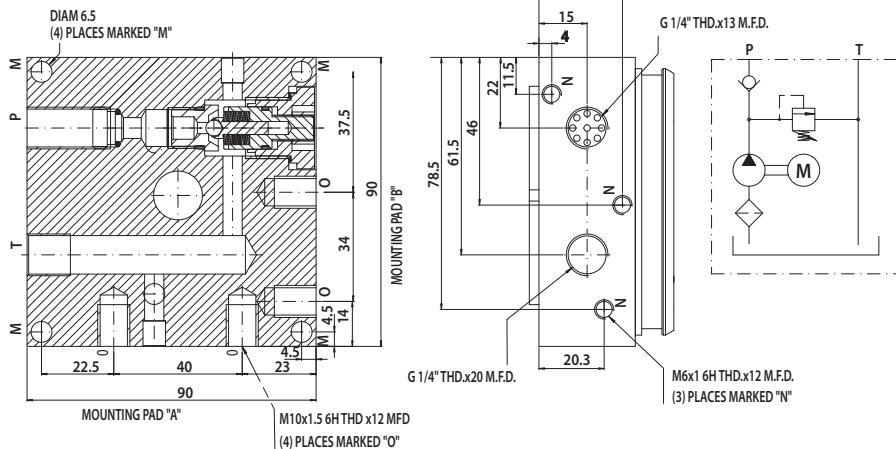
ADAPTOR He1000

only, be equipped with directly mounted or block-mounted cartridge valves or be equipped with block-mounted Cetop 2 or Cetop 3 valves.

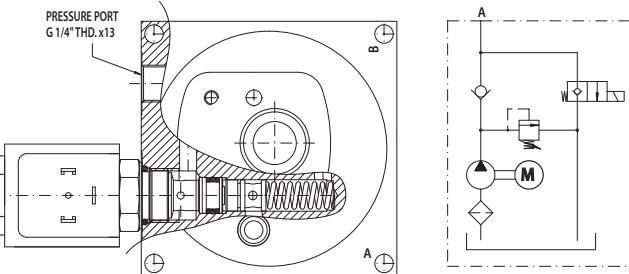
All adaptors have a check valve, and most models can be equipped with an integrated pressure-compensated constant-flow regulator.

Please note that adaptors are shown from the pump side on the following pages.

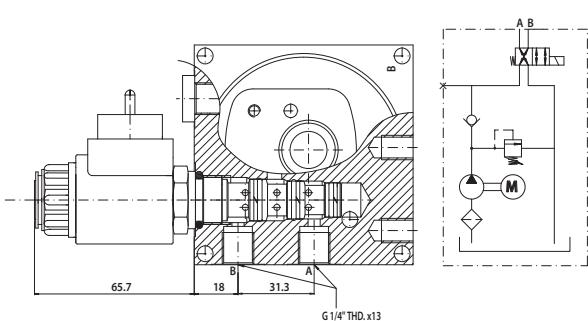
- AA000 Adaptor prepared for blockmounted valves or pump unit.



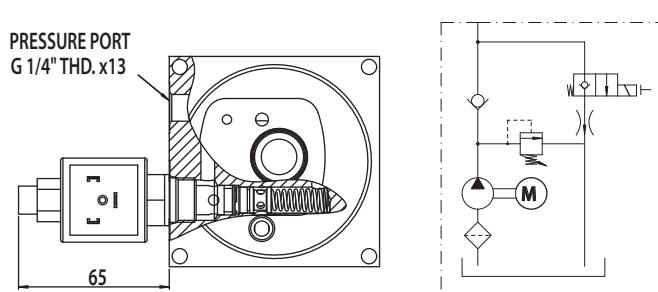
- AE012 Adaptor with 12 or 24 VDC, 2/2 cartridge valve, normally closed. Standard DIN 43650 connection or optional "Kostal" or "AMP junior" connections.
- AE024
- AE230 Normally open valve is available as an option.

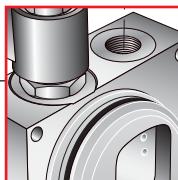


- AL012 Adaptor with 12 or 24 VDC, 4/2 cartridge valve integrated in adaptor.
- AL024
- AL230



- AO012 Adaptor with 12 or 24 VDC, 2/2 cartridge valve, normally closed and manual override. Standard DIN 43650 connection or optional "Kostal" or "AMP junior" connections.
- AO024
- AO230

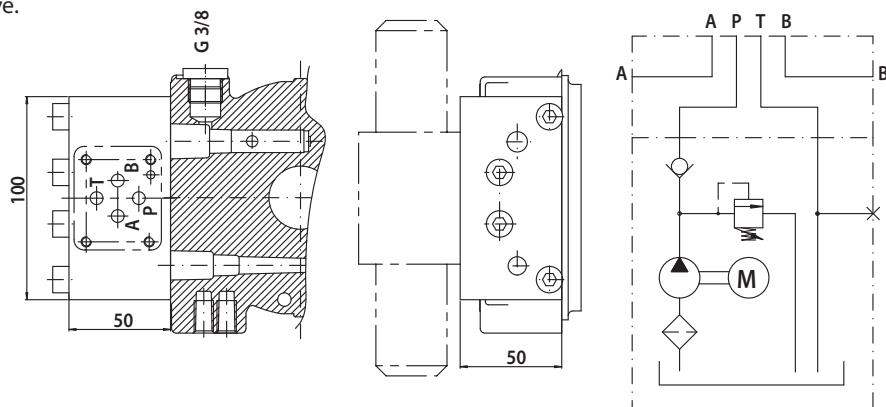




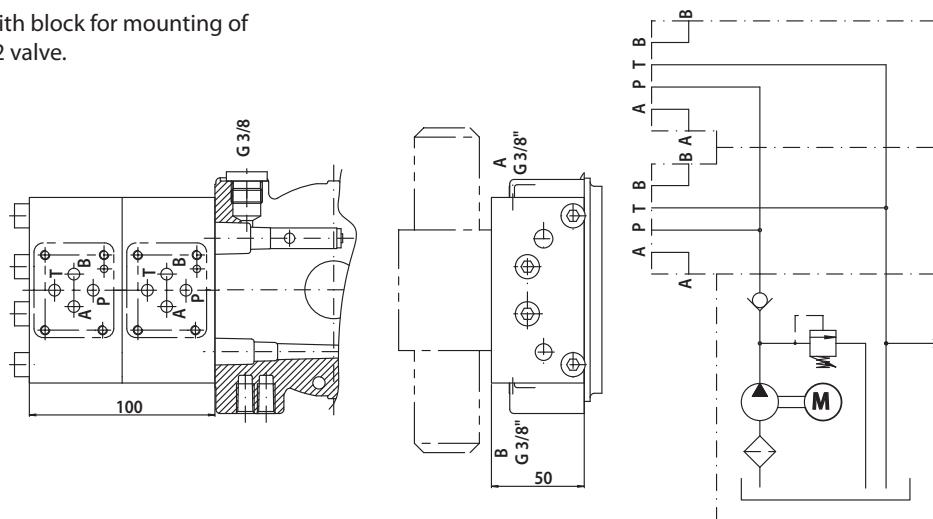
ADAPTOR He1000



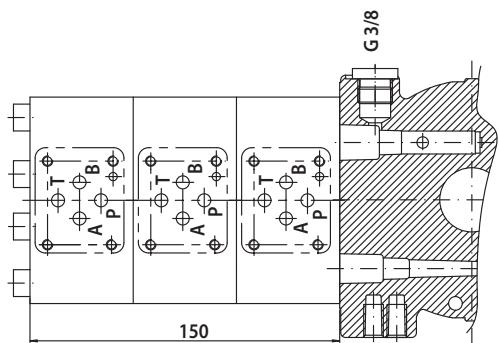
- **AP000** Adaptor with block for mounting of 1 x Cetop 2 valve.

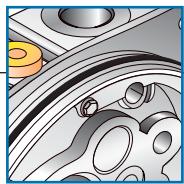


- **AQ000** Adaptor with block for mounting of 2 x Cetop 2 valve.



- **AR000** Adaptor with block for mounting of 3 x Cetop 2 valve.

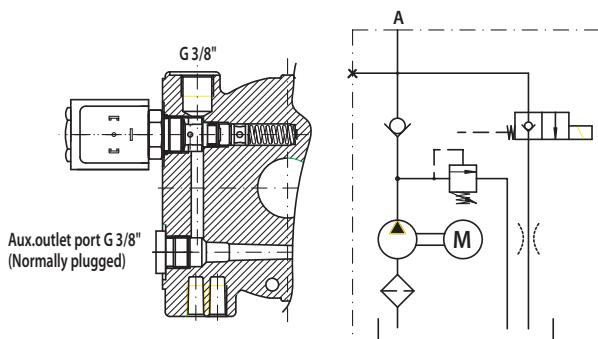
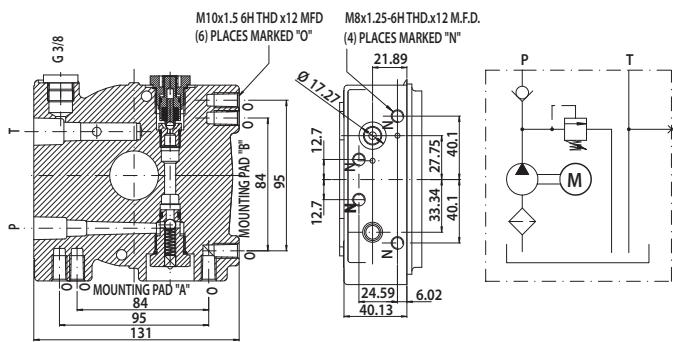




ADAPTOR He2000

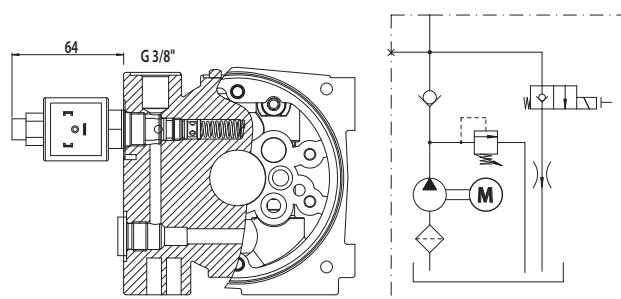
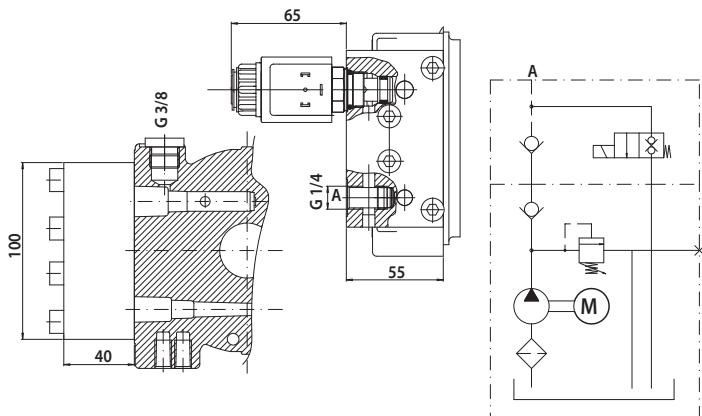
- **AA000** Adaptor prepared for block-mounting of external valves.

- **AE012** Adaptor with 12 or 24 VDC, 2/2 cartridge valve, normally closed. Standard DIN 43650 connection or optional "Kostal" or "AMP junior" connections.
- **AE024** Normally open valve or manual override is available as an option.
- **AE230**

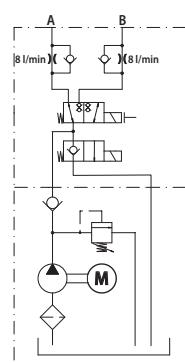
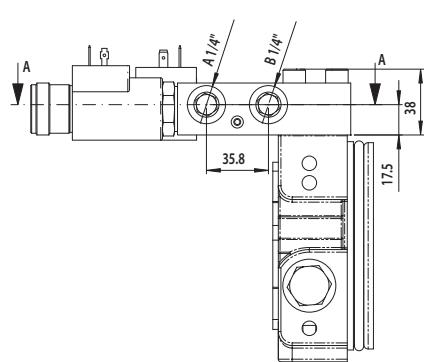


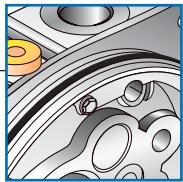
- **AF012** Adaptor with 12 or 24 VDC, block-mounted 2/2 cartridge valve.
- **AF024**
- **AF230**

- **AO012** Adaptor with 12 or 24 VDC, 2/2 cartridge valve, normally closed and manual override. Standard DIN 43650 connection or optional "Kostal" or "AMP junior" connections.
- **AO024**
- **AO230**



- **AS012** Adaptor with 12 or 24 VDC, cartridge valves, 2/2 normally closed, 3/2 and 2 x flow restrictor valves.
- **AS024**





ADAPTOR He2000



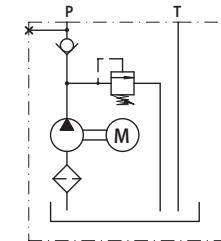
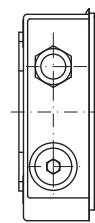
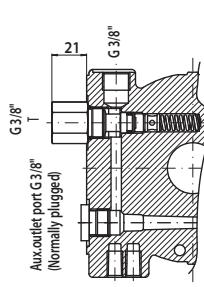
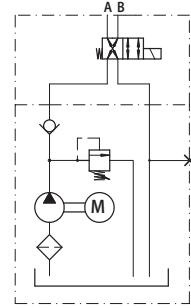
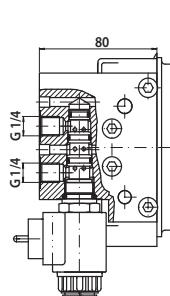
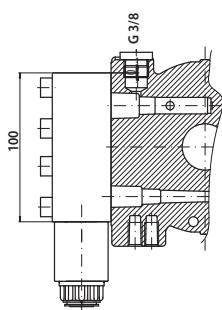
● AL012

Adaptor with 12 or 24 VDC block-mounted 4/2 cartridge valve.

● AL024

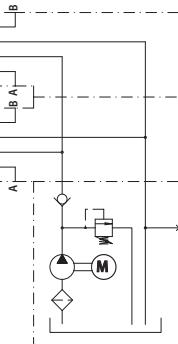
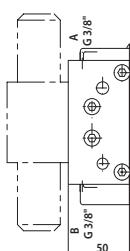
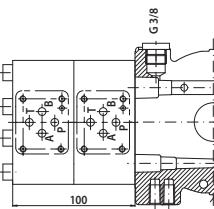
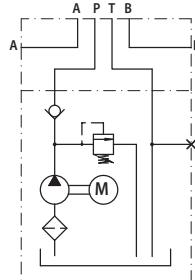
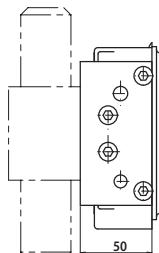
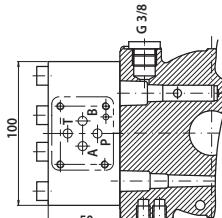
Adaptor with 12 or 24 VDC block-mounted 4/2 cartridge valve.

● AL230



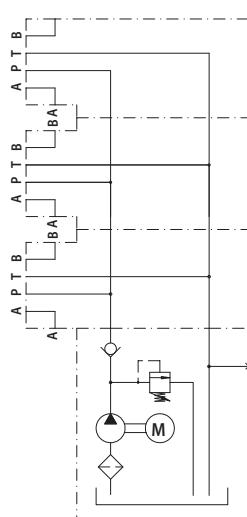
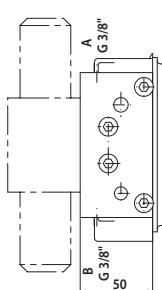
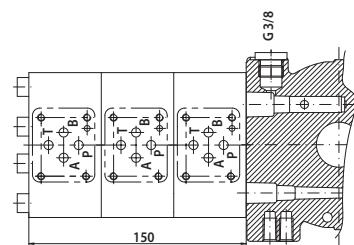
● AP000

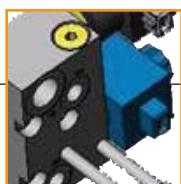
Adaptor with block for mounting of
1 x Cetop 3/NG 6 valve



● AR000

Adaptor with block for mounting of
3 x Cetop 3/NG 6 valve





He2200 High Flow Adaptor

THE NEW He2200 HIGH FLOW ADAPTOR

The need for more sophisticated systems at the same envelope size is one of the elements that is the basis for the He2200 High Flow Adaptor.

Within the envelope size of an He2000, Concentric has made it possible to integrate up to 3 cartridge valves for single acting, 2x single acting or double acting functions directly into the adaptor without external manifolds.

Additionally, larger flow control valves can be mounted to accept higher return flows at eg lowering at high speed. The

relief valve can easily be adjusted from the outside.

In the He2200 high flow version, the pump and motor are equipped with splined drive shafts that improve the life of each, especially at applications with many starts and stops.

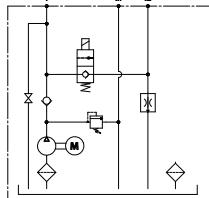
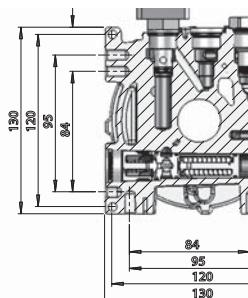
All in all, the He2200 high flow version offers a cost and space efficient solution and improved performance.

Please note that adaptors are shown from the pump side on the following pages.

ADAPTOR He2200 HIGH FLOW

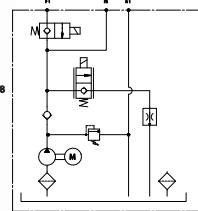
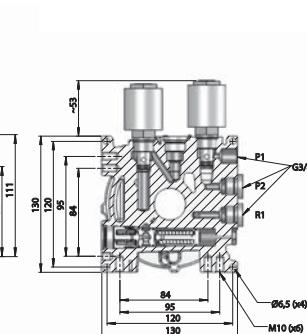
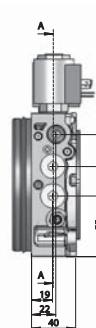
● BE000

Adaptor with 12 or 24 VDC, 2/2 cartridge valve, normally closed.



● BF000

Adaptor with 12 or 24 VDC, 2/2 cartridge valve, 1 x lowering proportional valve, normally closed.

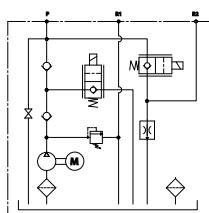
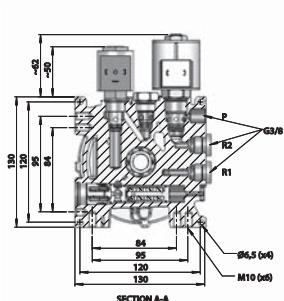
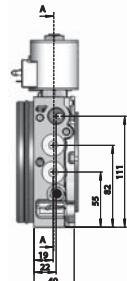


● BF012

● BF024

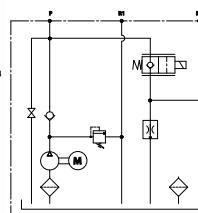
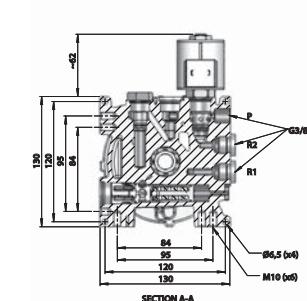
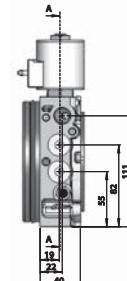
● BG000 ● BG012 ● BG024

Adaptor with 12 or 24 VDC, 2x integrated proportional valve for shunt off function at lift and lowering, normally closed.



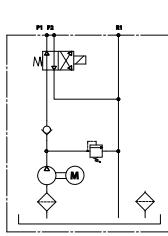
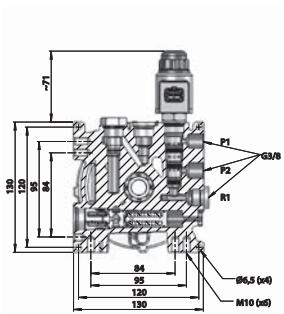
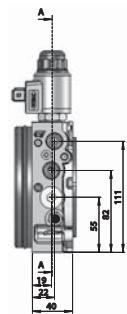
● BH000 ● BH012 ● BH024

Power up/gravity down made for rpm controlled lifting and proportional lowering. Adaptor with 12 or 24 VDC, normally closed.



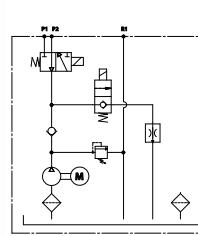
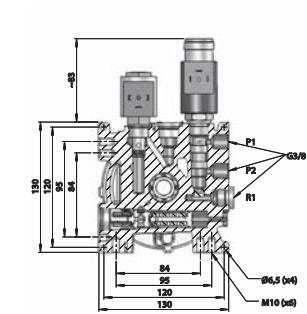
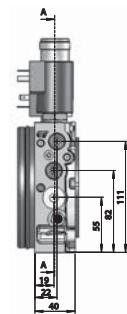
● BL000 ● BL012 ● BL024

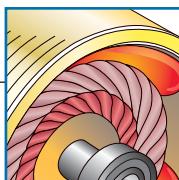
Adaptor with 12 or 24 VDC.



● BM000 ● BM012 ● BM024

Power up/gravity down for 2 single acting functions. Adaptor with 12 or 24 VDC. 3/2 valve for function selection.





HE PUMPS AND DC MOTORS

The HE series is equipped with motors for 12, 24 or 48 VDC. These motors provide extremely high power output and meet tough load requirements. A thoughtful basic design and long-lasting carbon brushes cut down on maintenance

requirements. All motors are manufactured by Concentric to ensure maximal system optimization, performance and quality. **He2000 adaptor can also be equipped with flanges for AC-motor mounting.**

MAKE THE OPTIMAL CHOICE OF PUMP AND MOTOR

On the following pages, you will find our range of DC motors and pumps.

Important parameters to consider in choosing the correct unit are flow in l/min, pressure in bars, and duty cycle. In some cases, allowable amp consumption is a factor too, due to restricted battery capacity.

Our curves permit easy comparison at a constant voltage measurement.

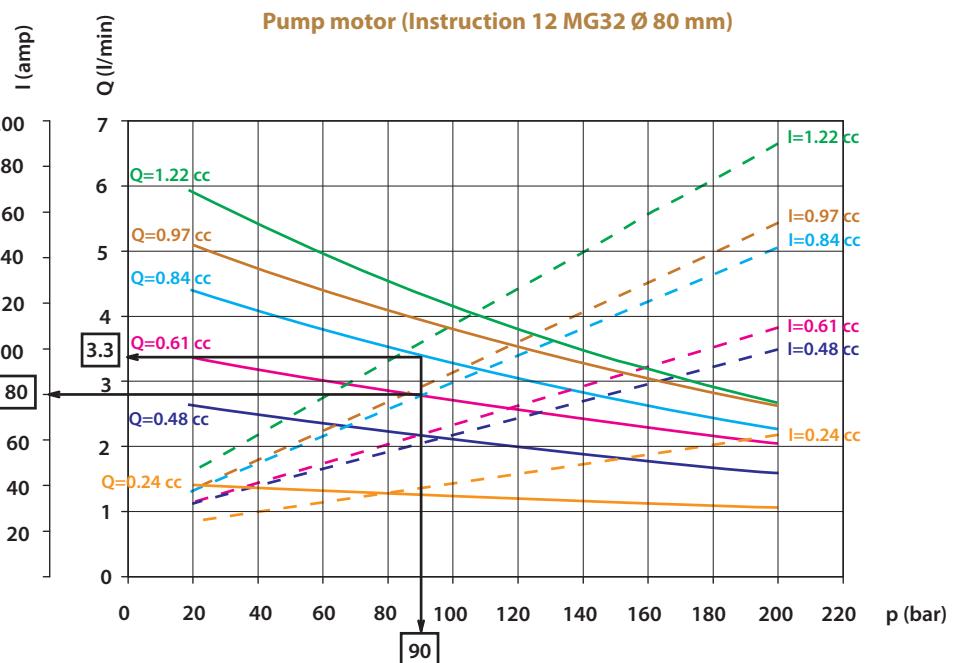
How to read the curves:

When pressure and flow are determined, the amperage can be read from the pump/motor curve. The amperage is then transferred to curve 2.

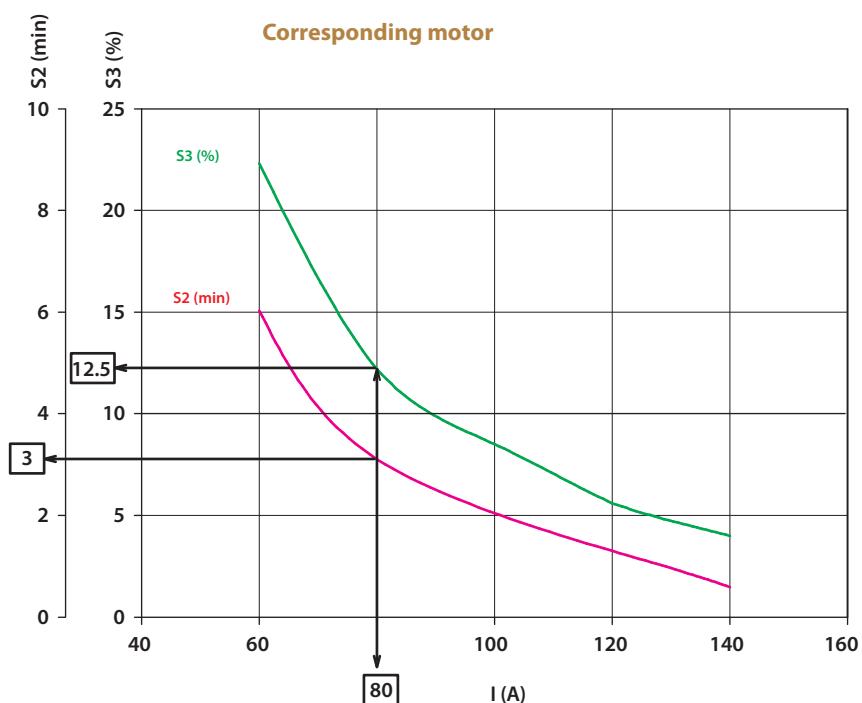
The amperage corresponds to an S2 and an S3 value. These values represent two ways of calculating duty capability.

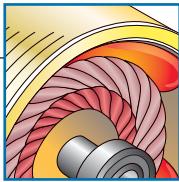
S2 is the number of minutes a unit can operate at a certain workload before reaching the maximum allowable temperature. After this, the unit must cool down until the motor temperature is less than 2°C from the ambient temperature before the same S2 value can be applied again.

S3 is the maximum time in % per 10 minute period that a unit can work at a certain pressure/workload. For example an S3 value of 30% = 3 min. for each 10 min. period, over and over again.



Example: 3,3 l/min at 90 bar and 80 amp on pump motor curve above gives S2 = 2,8 min and S3 = 11% at corresponding motor curve below.





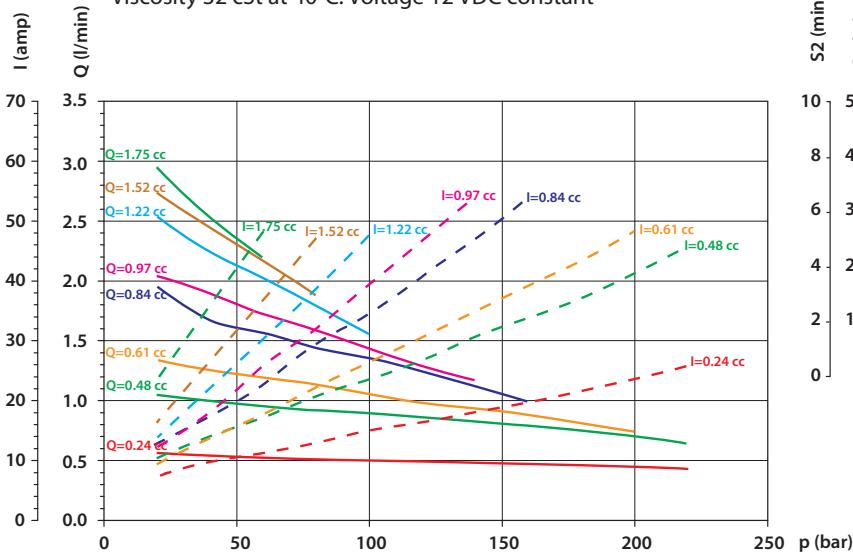
HE PUMPS AND DC MOTORS



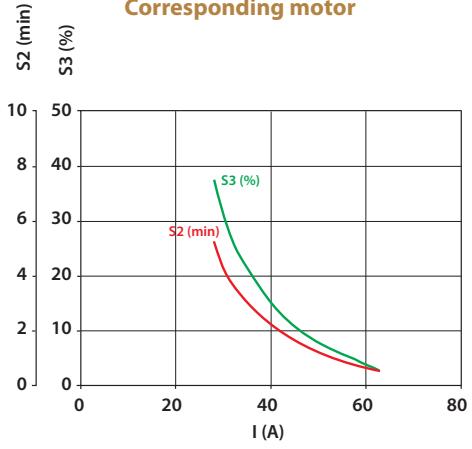
12MH82-HE

He1000 MH pump motor 12V DC Ø 84 mm

Viscosity 32 cSt at 40°C. Voltage 12 VDC constant



12MH82-HE-S2 & S3 Corresponding motor



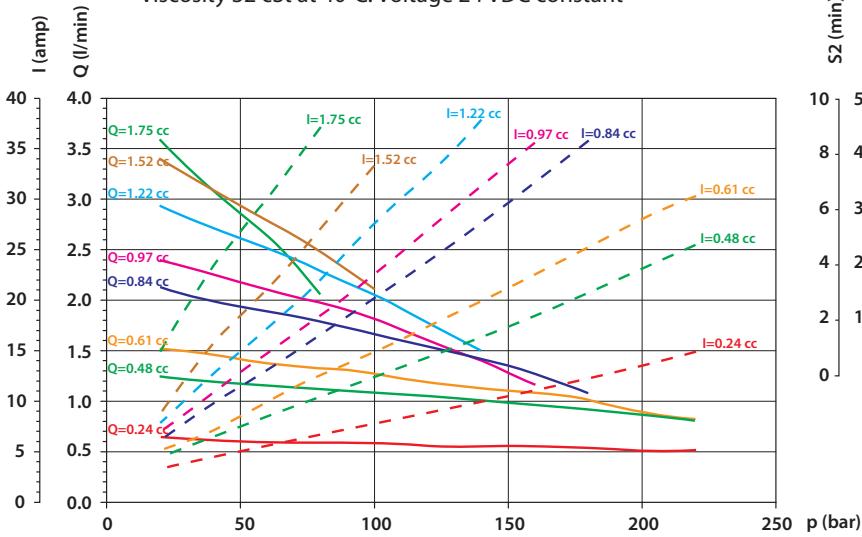
Code	Pump
02	0,24 cc
05	0,50 cc
06	0,60 cc
08	0,80 cc
10	1,00 cc
12	1,25 cc
15	1,50 cc
18	1,75 cc

Code	Motor
01	12MH82HE

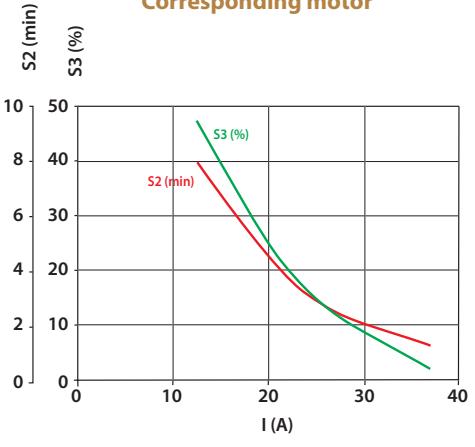
24MH82-HE

He1000 MH pump motor 24VDC Ø 84 mm

Viscosity 32 cSt at 40°C. Voltage 24 VDC constant

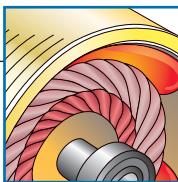


24MH82-HE-S2 & S3 Corresponding motor

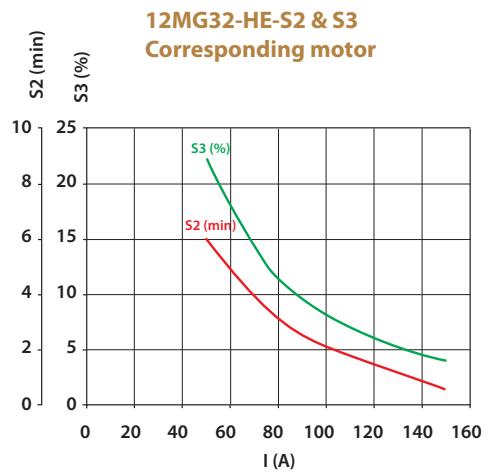
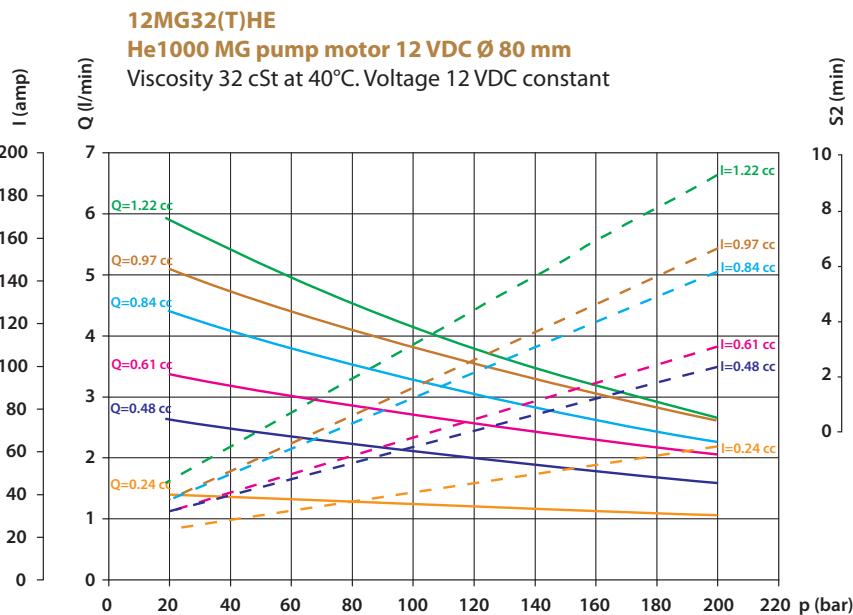


Code	Pump
02	0,24 cc
05	0,50 cc
06	0,60 cc
08	0,80 cc
10	1,00 cc
12	1,25 cc
15	1,50 cc
18	1,75 cc

Code	Motor
02	24MH82-HE

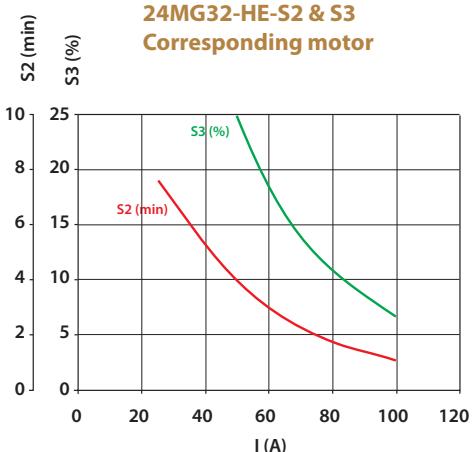
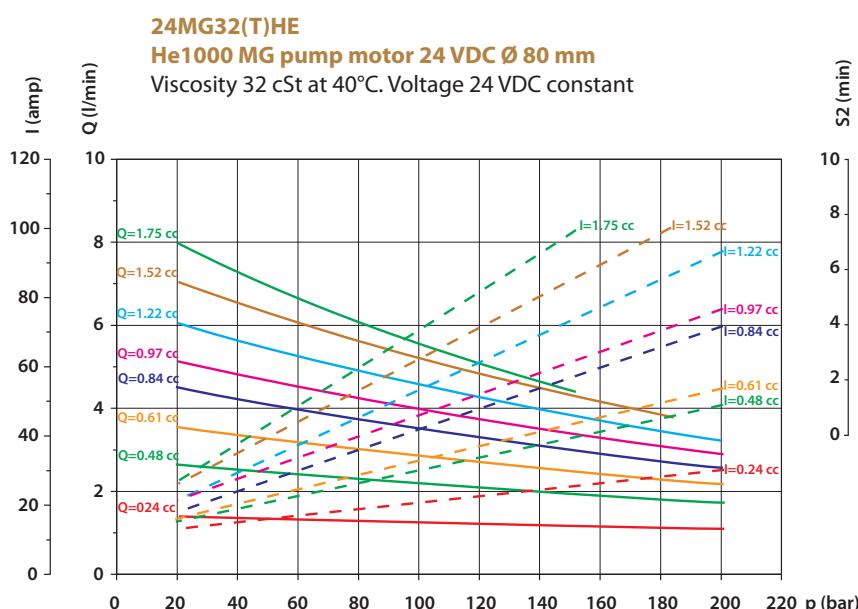


HE PUMPS AND DC MOTORS



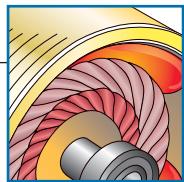
Code	Pump
02	0,24 cc
05	0,50 cc
06	0,60 cc
08	0,80 cc
10	1,00 cc
12	1,25 cc

Code	Motor
10	12MG32-HE
11	12MG32THE



Code	Pump
02	0,24 cc
05	0,50 cc
06	0,60 cc
08	0,80 cc
10	1,00 cc
12	1,25 cc
15	1,50 cc
18	1,75 cc

Code	Motor
15	24MG32-HE
16	24MG32-THE



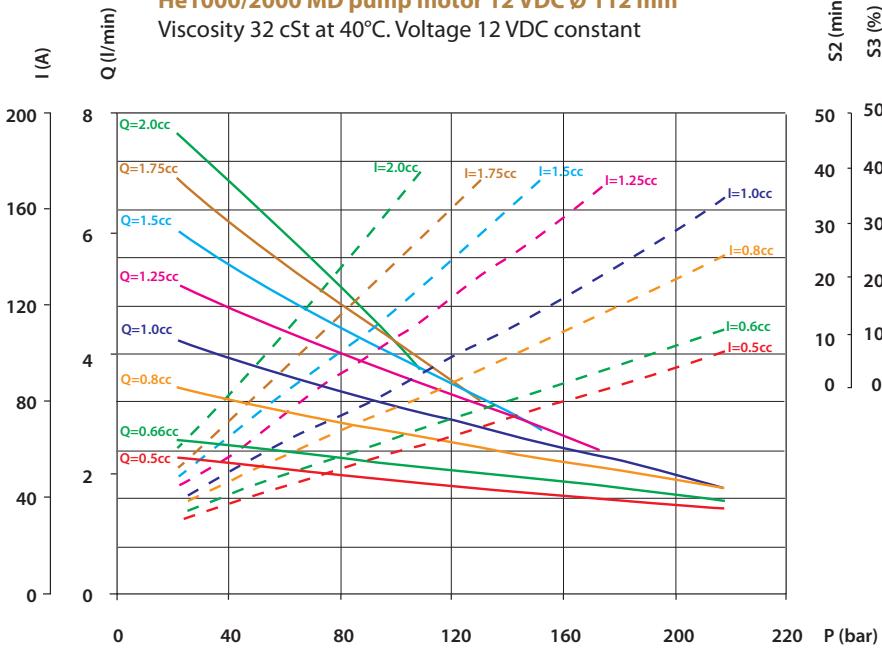
HE PUMPS AND DC MOTORS



12MD32(T)HE

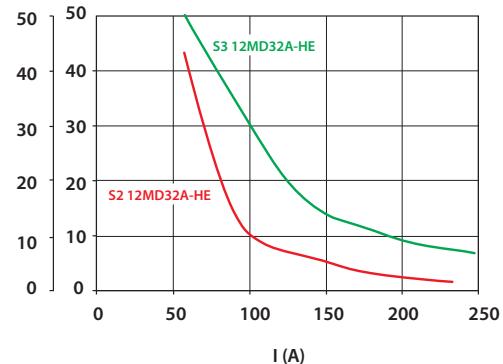
He1000/2000 MD pump motor 12 VDC Ø 112 mm

Viscosity 32 cSt at 40°C. Voltage 12 VDC constant



S2 (min)
S3 (%)

12MD32A-S2 & S3
Corresponding motor

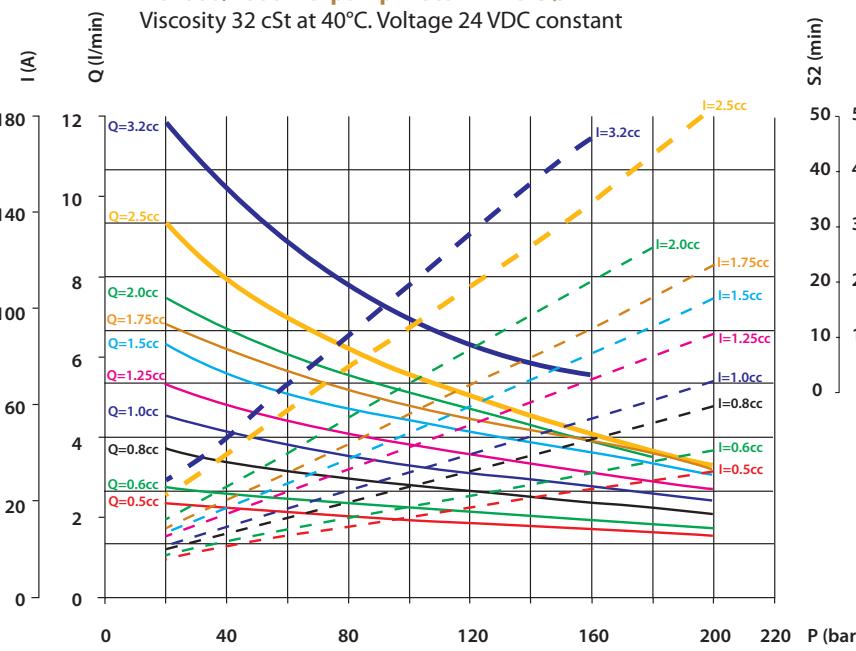


Code	Pump	Code	Pump
02	0,24 cc	18	1,75 cc
05	0,50 cc	20	2,00 cc
06	0,60 cc	26	2,50 cc
08	0,80 cc	32	3,20 cc
10	1,00 cc	37	3,80 cc
12	1,25 cc	43	4,30 cc
15	1,50 cc	48	4,80 cc
16	1,60 cc	57	5,70 cc

24MD32(T)HE

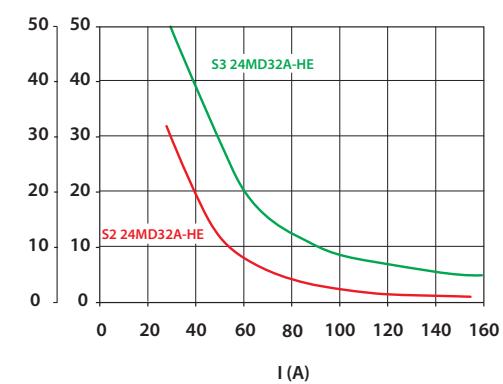
He1000/2000 MD pump motor 24 VDC Ø 112 mm

Viscosity 32 cSt at 40°C. Voltage 24 VDC constant

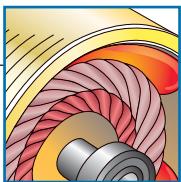


S2 (min)
S3 (%)

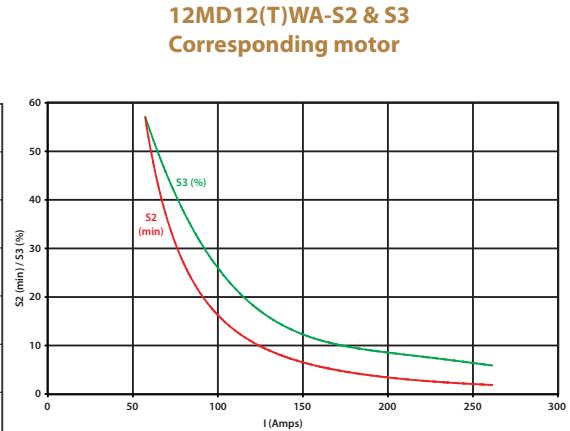
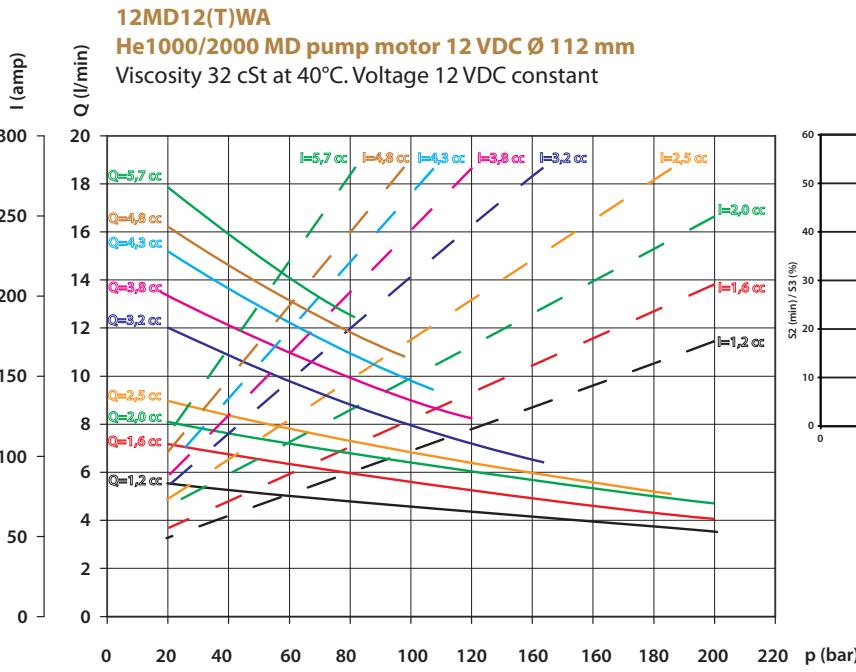
24MD32A-S2 & S3
Corresponding motor



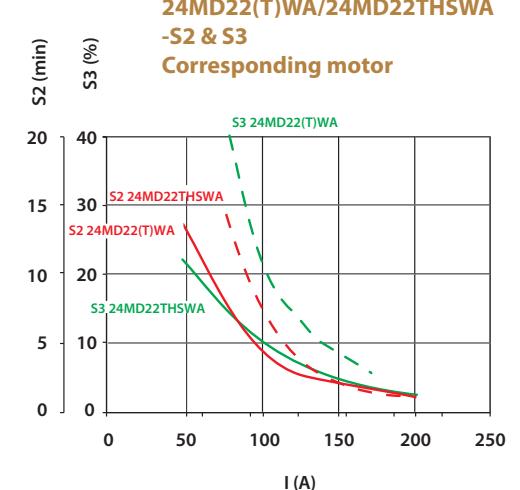
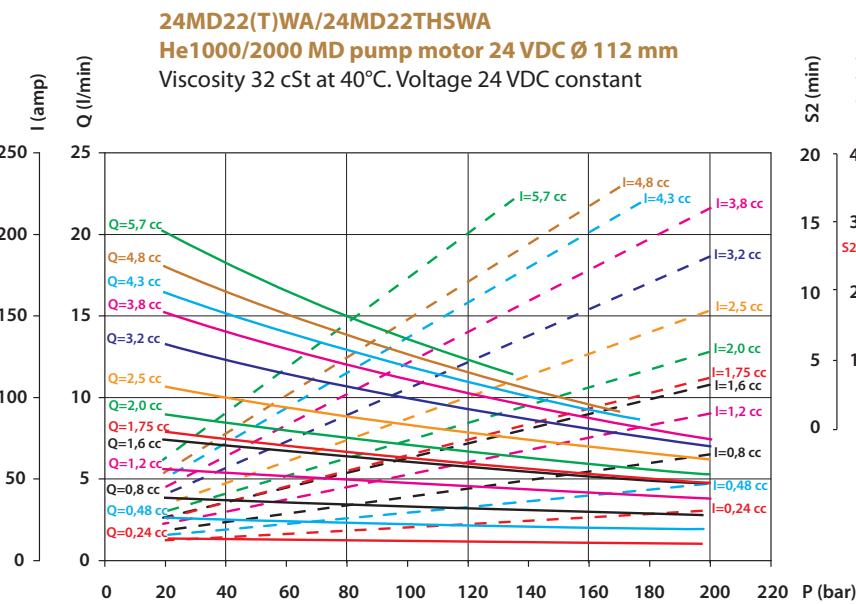
Code	Pump	Code	Pump
02	0,24 cc	18	1,75 cc
05	0,50 cc	20	2,00 cc
06	0,60 cc	26	2,50 cc
08	0,80 cc	32	3,20 cc
10	1,00 cc	37	3,80 cc
12	1,25 cc	43	4,30 cc
15	1,50 cc	48	4,80 cc
16	1,60 cc	57	5,70 cc



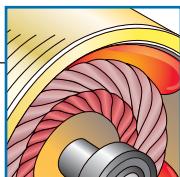
HE PUMPS AND DC MOTORS



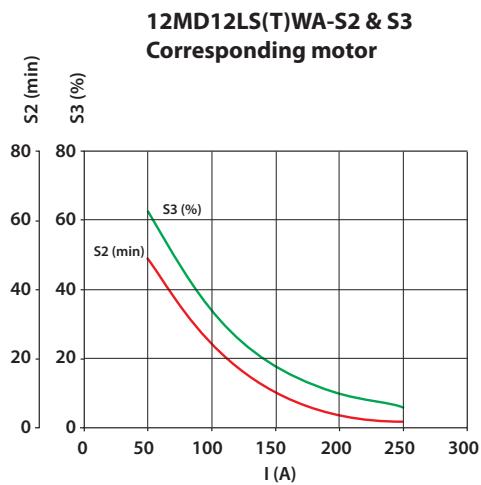
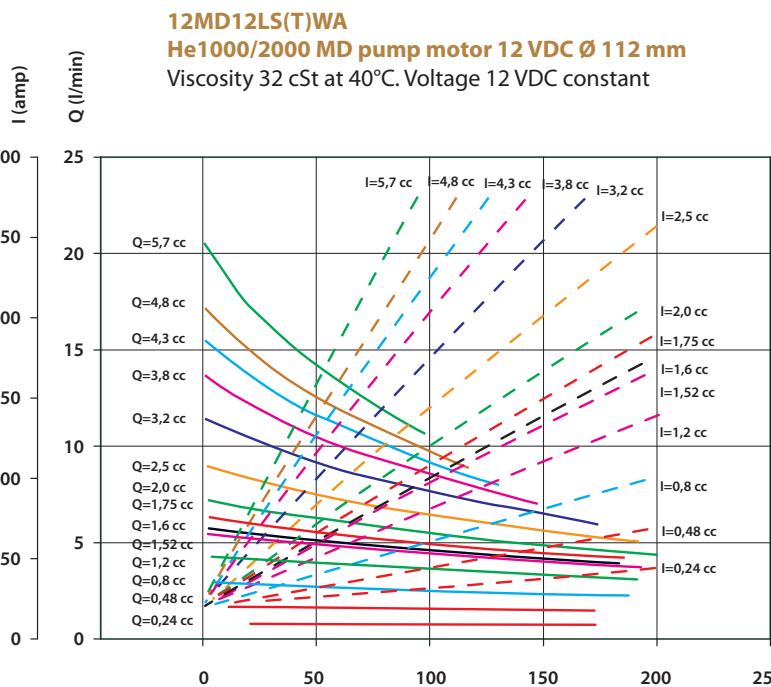
Code	Pump	Code	Pump
02	0,24 cc	18	1,75 cc
05	0,50 cc	20	2,00 cc
06	0,60 cc	26	2,50 cc
08	0,80 cc	32	3,20 cc
10	1,00 cc	37	3,80 cc
12	1,25 cc	43	4,30 cc
15	1,50 cc	48	4,80 cc
16	1,60 cc	57	5,70 cc



Code	Pump	Code	Pump
02	0,24 cc	18	1,75 cc
05	0,50 cc	20	2,00 cc
06	0,60 cc	26	2,50 cc
08	0,80 cc	32	3,20 cc
10	1,00 cc	37	3,80 cc
12	1,25 cc	43	4,30 cc
15	1,50 cc	48	4,80 cc
16	1,60 cc	57	5,70 cc

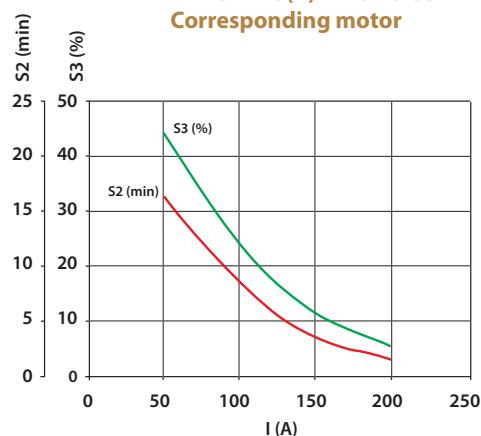
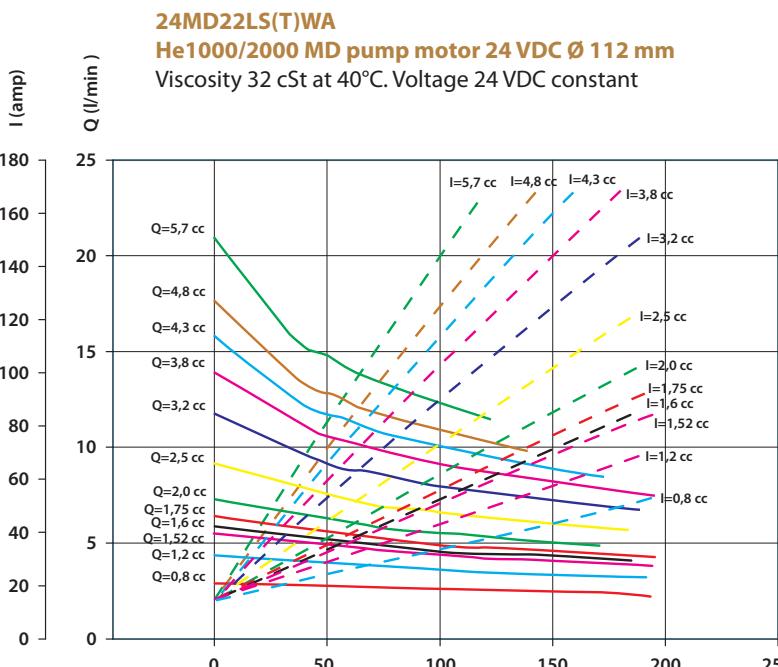


HE PUMPS AND DC MOTORS



Code	Pump
12	1,2 cc
16	1,6 cc
20	2,0 cc
25	2,5 cc
32	3,2 cc
38	3,8 cc
43	4,3 cc
48	4,8 cc
57	5,7 cc

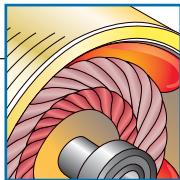
Code	Motor
29	12MD12LSTWA



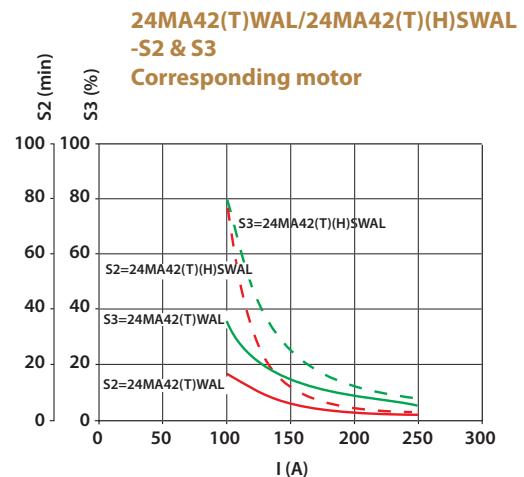
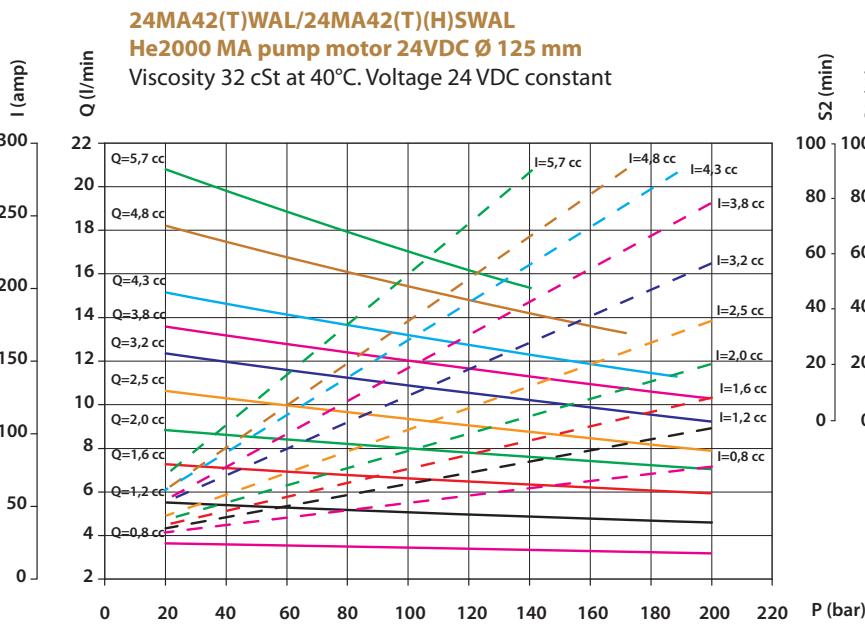
Code	Pump
12	1,2 cc
16	1,6 cc
20	2,0 cc
25	2,5 cc
32	3,2 cc
38	3,8 cc
43	4,3 cc
48	4,8 cc
57	5,7 cc

Code	Motor
30	24MD22LS(T)WA

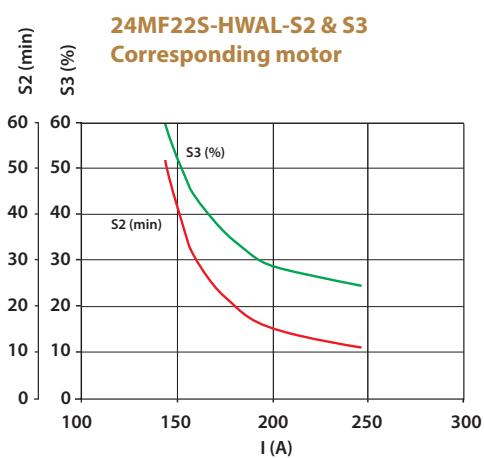
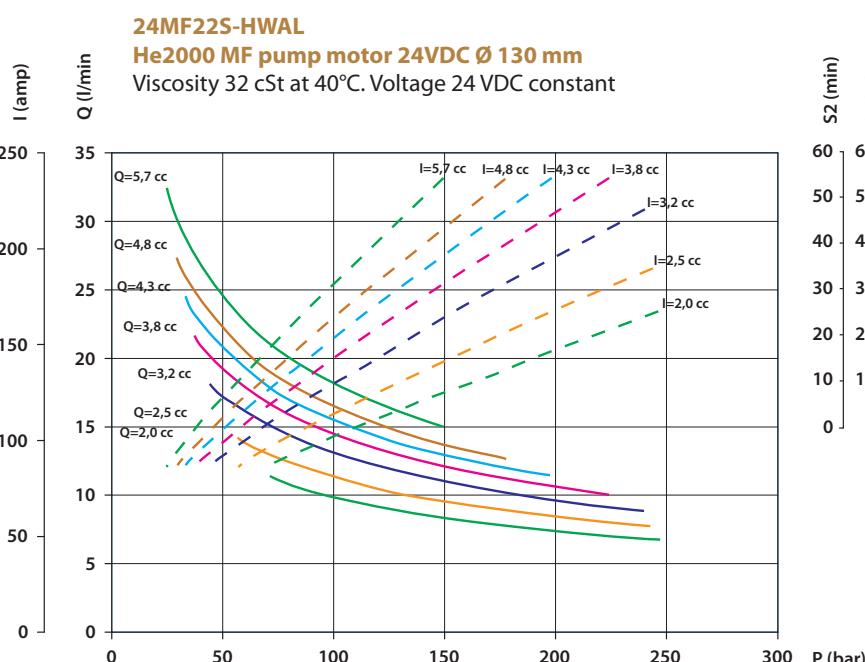
WQ pumps available.



HE PUMPS AND DC MOTORS

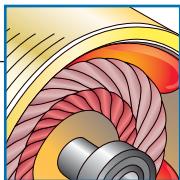


Code	Pump
12	1,2 cc
16	1,6 cc
20	2,0 cc
25	2,5 cc
32	3,2 cc
38	3,8 cc
43	4,3 cc
48	4,8 cc
57	5,7 cc



Code	Pump
20	2,0 cc
25	2,5 cc
32	3,2 cc
38	3,8 cc
43	4,3 cc
48	4,8 cc
57	5,7 cc

Code	Motor
31	24MF22S-HWA



HE PUMPS AND DC MOTORS

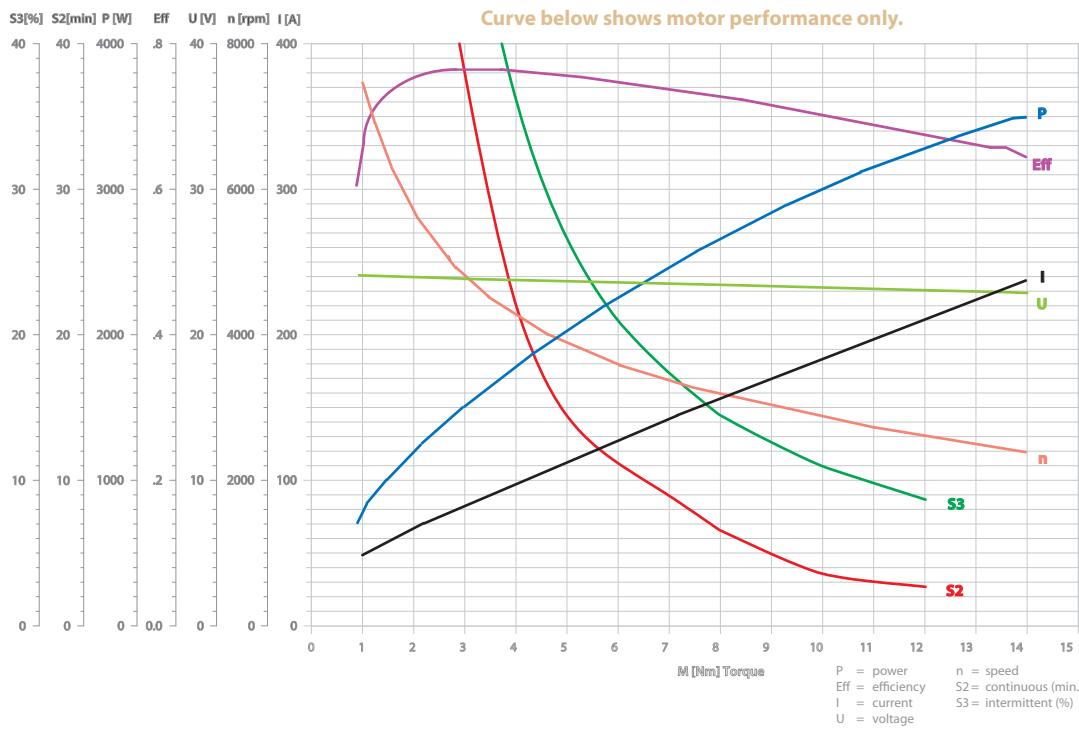


To size a motor correctly, calculate "hydraulic power": $P(\text{kW}) = p(\text{Bar}) \times Q(\text{L/min}) \div 600$. Look in the diagram and find the torque $M(\text{Nm})$ and rpm for the calculated power. Then calculate "pump displacement" $D(\text{cm}^3/\text{rpm})$ for your needed working pressure $p(\text{Bar})$: $D(\text{cm}^3/\text{rpm}) = (M(\text{Nm}) \times 2\pi \times 10 \times 0, 9) \div p(\text{bar})$. From the result, choose the closest, smaller, displacement of the standard pumps. Then check the flow $Q(\text{L/min})$ for the chosen pump $Q(\text{L/min}) = ((n/\text{rpm}) \times D(\text{cm}^3/\text{rpm})) \div 900$. From that reference, check the curves below for motor speed, current draw, S2 and S3 performance. S2 is the number of minutes a unit can operate at a certain workload before reaching the maximum allowable temperature. The unit must cool down until the motor temperature is less than 2°C from the ambient temperature before the same S2 value can be applied again. S3 is the maximum time in % per 10 minute period that a unit can work at a certain pressure/workload. For example, an S3 value of 30% = 3 min. for each 10 min. period, over and over again.

He2000 24MD22S-WALX2

He2000 24MD22S-HEX2

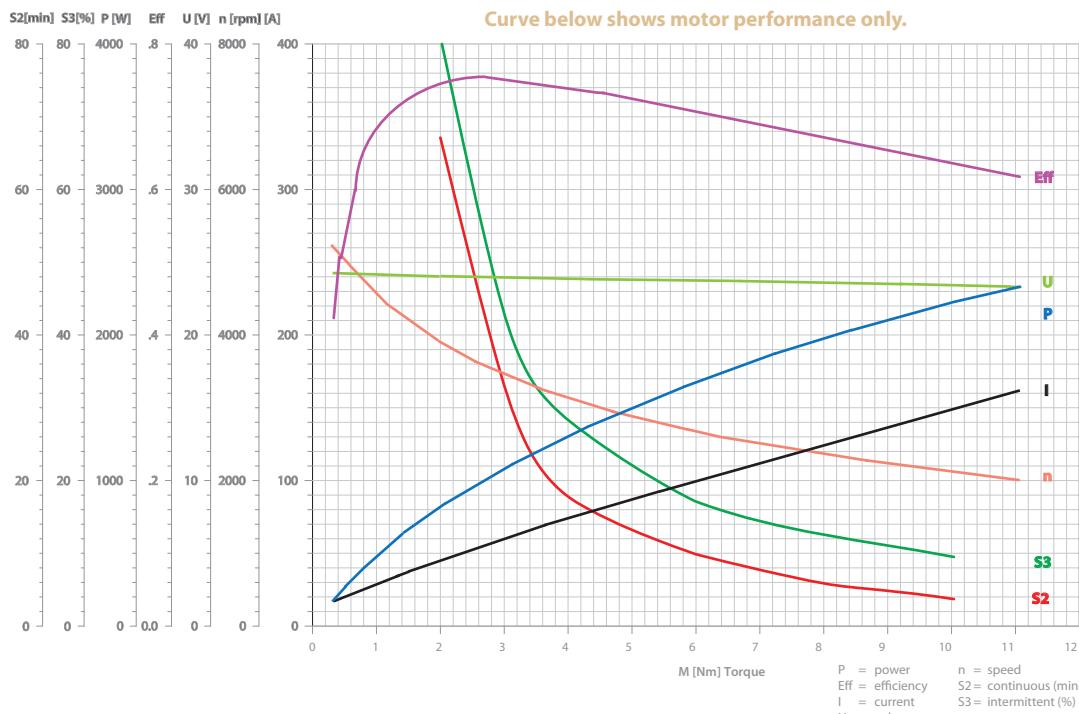
He2000 MD pump motor 24VDC Ø 112 mm

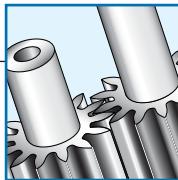


He2000 24MD22-WALX

He2000 24MD22-HEX

He2000 MD pump motor 24VDC Ø 112 mm





TECHNICAL INFORMATION



Symbols	Equations	Common units
Flow Q	$Q = 0,06 \times V \times A$	l/min
Operating pressure p	$p = \frac{F}{0,1 \times A}$	bar
Internal diameter, hydraulic cylinder d		mm
Area of hydraulic cylinder A	$A = \frac{\pi \times d^2}{4}$	mm ²
Piston force F		N
Piston speed V		m/s
Power requirement for motor P	$P = \frac{p \times Q}{600 \times \eta_{\text{tot}}}$	kW
Pump displacement D		cm ³ /rev
Torque requirement M	$M = \frac{D \times p}{62,8 \times \eta_{\text{mek}}}$	Nm

PUMP INFO

Max pressure p_1 230 bar
Intermittent p_2 255 bar

Allowable fluids HL or HLP hydraulic oils according to DIN 51524.

Biogradable fluids eg. Statoil Bio Pa. Before using other types of fluids, contact factory.

Recomended viscosity 40-16mm²/s. Permissible cold start viscosity is 2000mm²/s.

Contact factory before using fluids outside this range.

Temperature min -25°C, max +80°C.

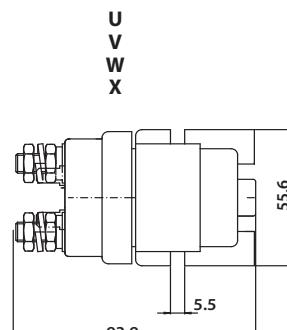
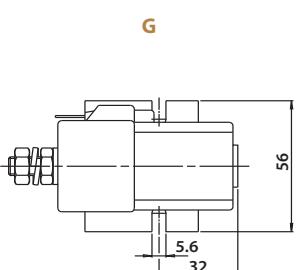
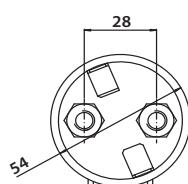
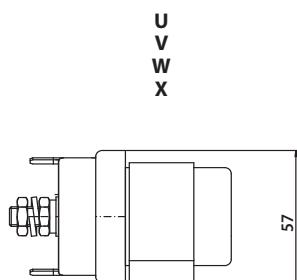
Fluid cleanliness We recommend a cleanliness according to IS4406/1986 Code 18/14 or better to achieve optimal performance and lifetime.

When operating outside these limits, see recommendations in "Allowable fluids".

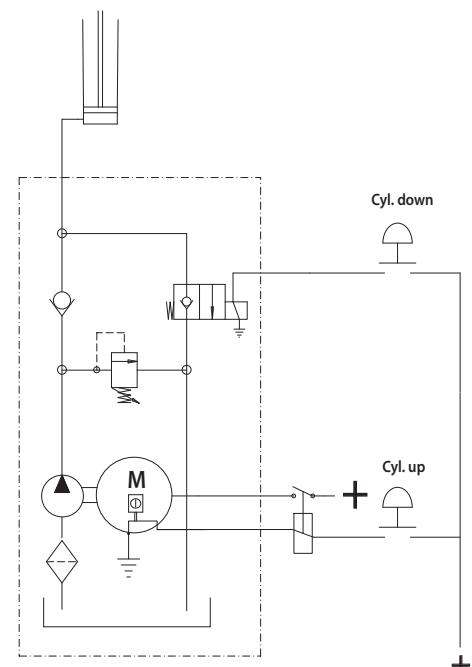
START SWITCHES

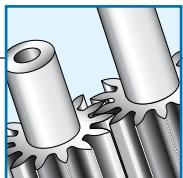
Dimensional drawing
12/24 VDC start switch

Code	Start switch
A	None
U	12VDC, MG and MH motor Ø80
V	24VDC, MG and MH motor Ø80
W	12VDC, MD and MA motor Ø112
X	24VDC, MD and MA motor Ø112
G	24VDC, MA motor, Heavy duty Ø125



TYPICAL CIRCUIT



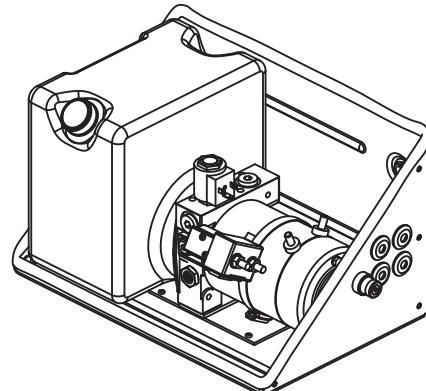
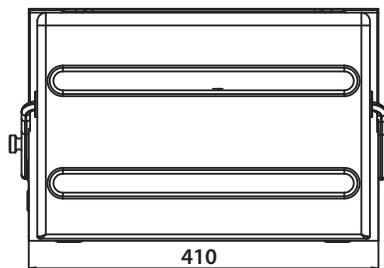
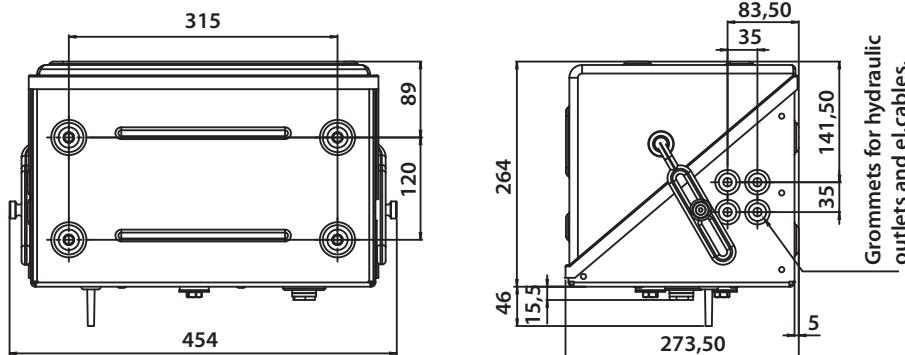


TECHNICAL INFORMATION

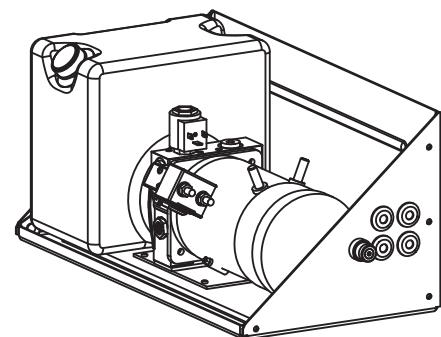
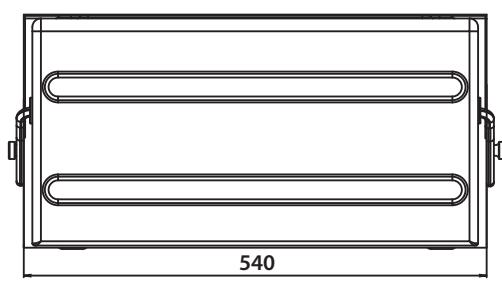
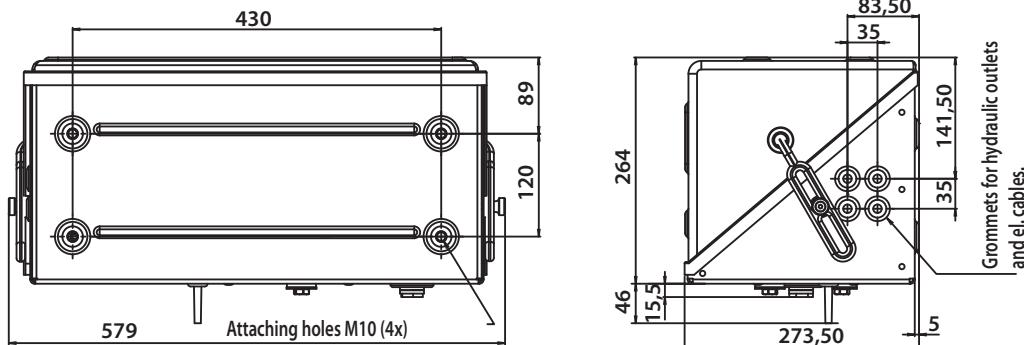
HE-BOX POWER PACKS

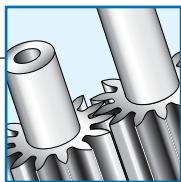
From the well-known and well-reputed Hesselman Classic (made by Concentric) the New HE-Box Power Pack is developed. The base concept is the HE Power Pack, which, with a box in steel/TPE combination, is a hydraulic unit for easy mounting, tough conditions, and high serviceability.

HE POWER PACK
with box 1 or 2 kW
Performance



HE POWER PACK
with box 1, 2 or 3 kW
Performance



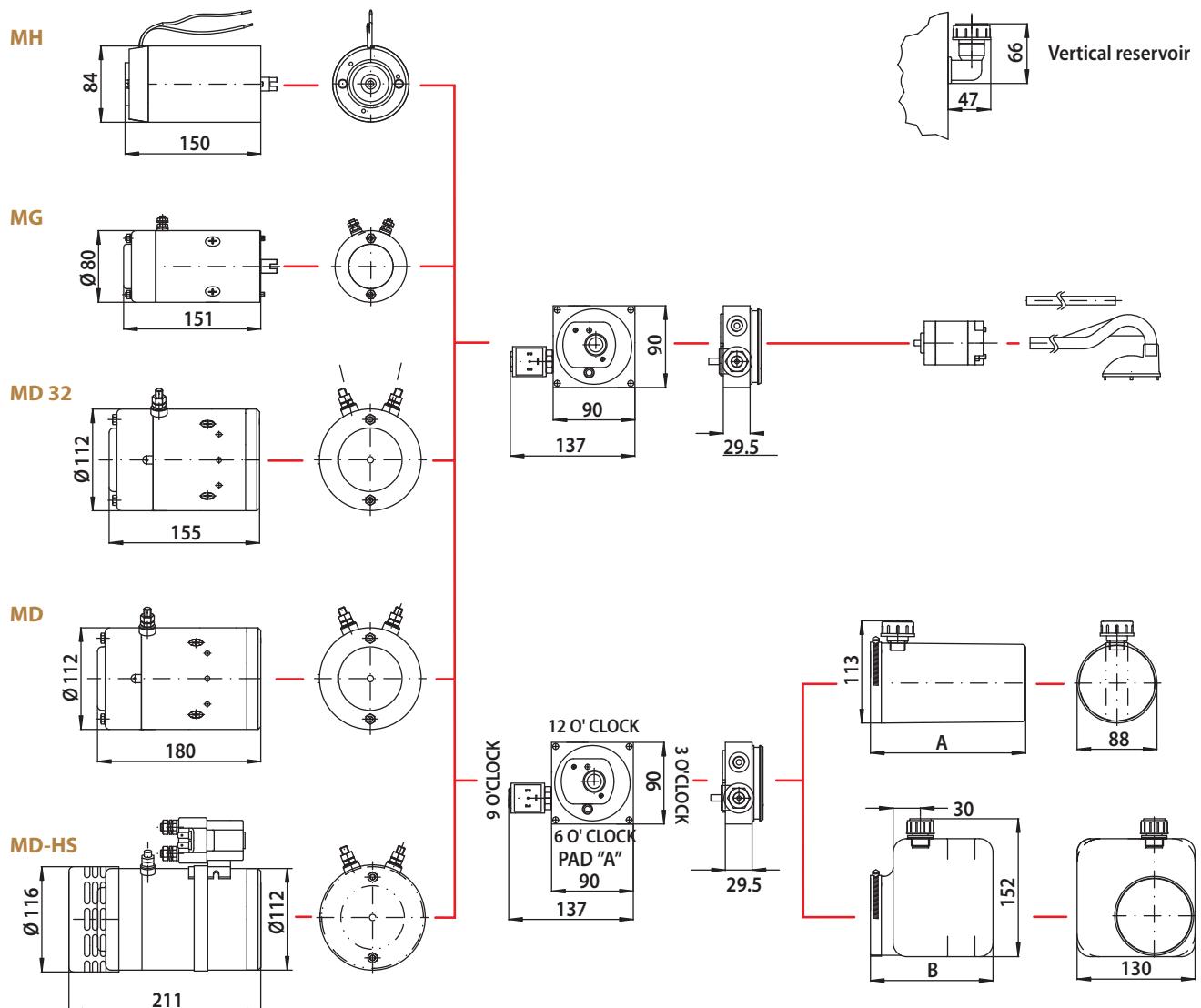


TECHNICAL INFORMATION



He1000

Dimensional drawing for power unit 12/24 VDC



Reservoir, length He1000

Reservoir Type	Codes		Reservoir, length (mm)
	Horizontal V	Vertical V	
Cylindrical	AA V=0,5 l	AB V=0,5 l	A=172
Cylindrical	AC V=0,7 l	AD V=1,0 l	A=249
Rectangular	AE V=1,0 l	AF V=1,0 l	B=129
Rectangular	AG V=1,4 l	AH V=1,7 l	B=164
Rectangular	AJ V=2,0 l	AK V=2,1 l	B=199
Rectangular	AL V=3,0 l	AM V=3,8 l	B=299

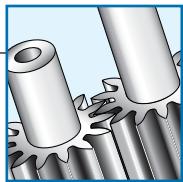
(V=Usable volumes in litres)

Weights, ~kg He1000

Basic version and add-on's	Kg
Standard He1000 80mm	5
Standard He1000 112mm add-on (diff 80mm - 112 mm)	+3.7
Add-on Cetop block He1000	+0.47/pc
Add-on HE Box 400mm (box + cover)	+6.4
Add-on HE Box 520mm (box + cover)	+7.5

Basic version incl. plastic reservoir 1 l, 2/2 cartridgevalve, start solenoid. AC version excl motor and start solenoid.

Weights also excludes oil and are approximate and depending on version of pumps, reservoirs and valving.

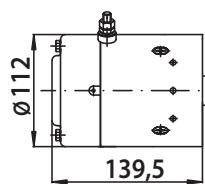


TECHNICAL INFORMATION

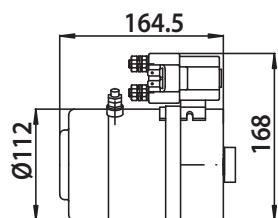
He2000 / He2200

Dimensional drawing for power unit 12/24 VDC

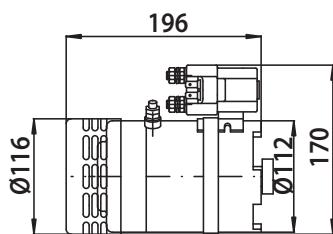
MD 32



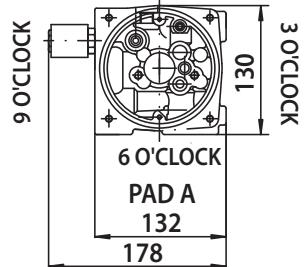
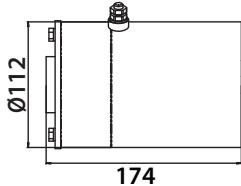
MD



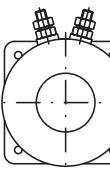
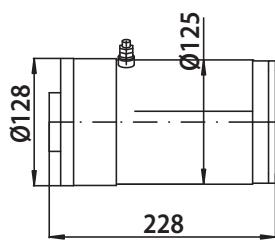
MD-HS



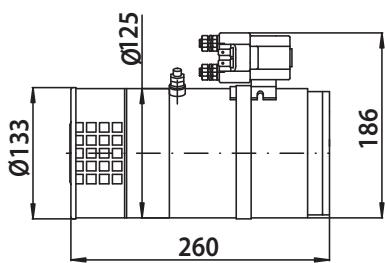
MD-HEX



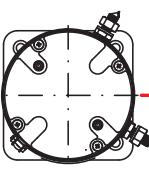
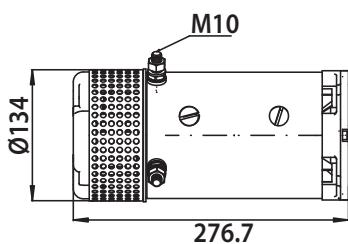
MA

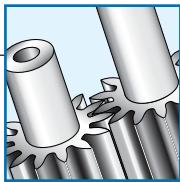


MA-HS

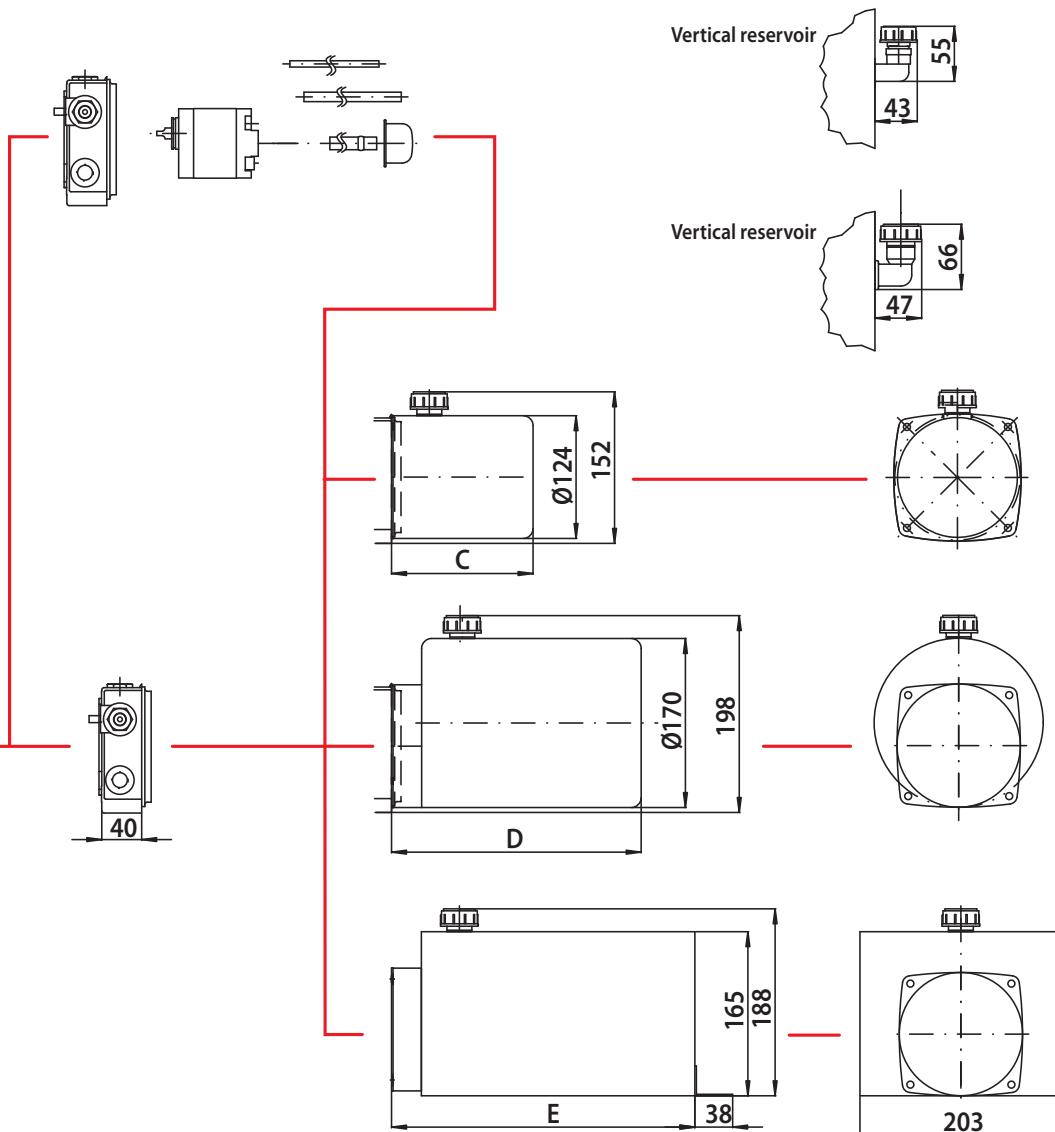


MF





TECHNICAL INFORMATION



Reservoir, length He2000

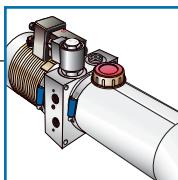
Reservoir Type		Codes		Reservoir, length (mm)
		Horizontal V	Vertical V	
124 Plastic	Cylindrical	BA V=1,0	BB V=0,9	C=143
124 Plastic	Cylindrical	BC V=1,6	BD V=1,3	C=191
124 Plastic	Cylindrical	BE V=1,8	BF V=1,8	C=230
124 Steel	Cylindrical	BG V=1,5	BH V=1,5	D=230
124 Steel	Cylindrical	BJ V=2,8	BK V=2,9	D=306
170 Steel	Cylindrical	BL V=3,4	BM V=2,0	D=219
170 Steel	Cylindrical	BN V=5,6	BO V=4,4	D=328
170 Steel	Cylindrical	BP V=6,2	BQ V=5,6	D=397
165x203 Steel	Rectangular	BR V=6,3	BS V=7,0	E=306
165x203 Steel	Rectangular	BT V=10,6	BU V=12,1	E=471

(V = Usable volume in litres)

Weights, ~kg He2000

Basic version and add-on's	Kg
Standard He2000 112mm	9.5
Standard He2000 125mm add-on (diff 112mm-125mm)	+4.8
Standard He2000 AC (add-on Standard-112mm motor + AC flange and connector)	3
Add-on Cetop block He2000	+0.7/pc
Add-on HE Box 400mm (box + cover)	+6.4
Add-on HE Box 520mm (box + cover)	+7.5

Basic version incl. plastic reservoir 1 l, 2/2 cartridgevalve, start solenoid. AC version excl motor and start solenoid. Weights also excludes oil and are approximate and depending on version of pumps, reservoirs and valving.



He1000/He2000/He2200 POWER PACK CODE KEYS

To order a complete unit, simply work through the options below, creating an order code as shown in the example.

He1000 POWER PACK CODE KEY

Example of Order Code Structure:

He1 - AE024 - 05 - 150 - F - 15 - AD - 6 - C - 2 - AA - 0 - A - 00 - 00

Sect:

I II III IV V VI VII VIII IX X XI XII XIII XIV XV

Sect I	Code He1	He1000 Adaptor Size He1000 adaptor	He1000 kit no.	HE Box	Sect VII	Code AA	He1000 Reservoir 0,5 l usable, horizontal, cyl., plastic	He1000 kit no.	HE Box	
II	Code AA000	He1000 Coil volt.+ valve type Adaptor Kit	1303384	.		AB	0,5 l usable, vertical, cyl., plastic	1303485		
	AE012	Valve Kit 12V 2/2 norm closed	1303386	.		AC	0,7 l usable, horizontal, cyl., plastic	1303486		
	AE024	Valve Kit 24V 2/2 norm closed	1303387	.		AD	1,0 l usable, vertical, cyl., plastic	1303487		
	AE230	Valve Kit 230V 2/2 norm closed	1303389	.		AE	1,0 l usable, horizontal, rect., plastic	1303488		
	AL012	Valve kit 12V 4/2 in block	1303392	.		AF	1,0 l usable, vertical, rect., plastic	1303489		
	AL024	Valve kit 24V 4/2 in block	1303393	.		AG	1,4 l usable, horizontal, rect., plastic	1303490		
	AL230	Valve kit 230V 4/2 in block	1303395	.		AH	1,7 l usable, vertical, rect., plastic	1303491		
	AN000	Adaptor kit	1303390	.		AJ	2,0 l usable, horizontal, rect., plastic	1303492		
	AO012	Adaptor kit	1303384	.		AK	2,1 l usable, vertical, rect., plastic	1303493		
	AO024	Valve kit 12V, code AE with manual override	1303396	.		AL	3,0 l usable, horizontal, rect., plastic	1303494		
	AO230	Valve kit 24V code AE with manual override	1303397	.		AM	3,8 l usable, vertical, rect., plastic	1303495		
	AO230	Valve kit 230V code AE with manual override	1303399	.		AN	5,2 l usable reservoir-kit He1 in a box	1303634	.	
	AP000	Adaptor kit	1303385	.	VIII	Code 0	He1000 Motor terminal screw pos. 12 o'clock to pad A			
	AP000	Adaptor kit	1303384	.		3	Terminal bolts at 3 o'clock to pad A			
	AP000	Cetop block, head	1303400	.		6	Terminal bolts at 6 o'clock to pad A			
	AQ000	Adaptor kit	1303384	.		9	Terminal bolts at 9 o'clock to pad A		.	
	AQ000	Cetop block, head	1303401	.	IX	Code A	He1000 Start switch None			
	AQ000	Cetop block, 1 pcs	1303402	.		U	12V Ø 80 mm and Ø 84 mm	1303700	.	
	AR000	Adaptor kit	1303384	.		V	24V Ø 80 mm and Ø 84 mm	1303701	.	
	AR000	Cetop block, head	1303445	.		W	12V Ø 112 mm	1303702	.	
	AR000	Cetop block, 2 pcs	1303403	.		X	24V Ø 112mm	1303703	.	
III	Code 02	He1000 Pump 0,24 cm ³	1303431	.	X	Code 0	He1000 Start switch position 12 o'clock to pad A			
	05	0,50 cm ³	1303432	.		2	Relative to motor terminal			
	06	0,60 cm ³	1303578	.		3	3 o'clock to pad A			
	08	0,80 cm ³	1303433	.		6	6 o'clock to pad A			
	10	1,00 cm ³	1303579	.		9	9 o'clock to pad A			
	12	1,25 cm ³	1303434	.		A	No switch		.	
	15	1,50 cm ³	1303580	.	XI	Code AA	He1000 Tube kit Tube kit included in reservoir kit		.	
	18	1,75 cm ³	1303581	.		XII	Code 0	He1000 Breather position 12 o'clock to pad A		
	20	2,00 cm ³	1303582	.		1	01.30 o'clock to pad A			
IV	Code ***	He1000 Relief valve Setting 50-250 bar, eg 150 bar	1303525	.		3	3 o'clock to pad A			
V	Code A	He1000 Flow control valve None	.	.		4	04.30 o'clock to pad A			
	E	4 l/min 1303448	.	.		5	10.30 o'clock to pad A			
	F	5 l/min	1303449	.		6	6 o'clock to pad A			
	K	8l/min	1303450	.		7	07.30 o'clock to pad A			
						9	9 o'clock to pad A			
VI	Code 10	He1000 Motor 12MG32-HE Ø 80 mm	1303454	.	XIII	Code A	He1000 Coil/Lever pos on valve 12 o'clock = Towards motor		.	
	11	12MG32THE (Therm.sw.) Ø 80mm	1303455	.		B	3 o'clock = Towards center of adaptor		.	
	15	24MG32-HE Ø 80 mm	1303456	.		C	6 o'clock = Towards reservoir		.	
	16	24MG32THE (Therm.sw.) Ø 80 mm	1303457	.		D	9 o'clock = Away from center of adaptor		.	
	01	12MH82HE Ø 84 mm	1303641	.		N	None		.	
	02	24MH82HE Ø 84 mm	1303642	.	XIV	Code 00	He1000 Access 1 No accessories			
	22	12MD32A Ø 112 mm	1303708	.		28	HE box 400 mm	1303635	.	
	32	24MD32A Ø 112 mm	1303710	.			Cover to 400 mm box	1303636	.	
	20	12MD12-WA Ø 112 mm	1303458	.			Assemble kit	1303637	.	
	21	12MD12TWA (Therm.sw.) Ø 112 mm	1303459	.		29	HEQ box 400 mm	1303638	.	
	25	24MD22-WA Ø 112 mm	1303460	.			Cover sound absorbed 400 mm box	1303639	.	
	26	24MD22TWA (Therm.sw.) Ø 112 mm	1303461	.			Box assembly kit		.	
	27	12MD12THSWA (with fan) Ø 112 mm	1303643	.	XV	Code 00	He1000 Access 2 No accessories			
	28	24MD22THSWA (with fan) Ø 112mm	1303644	.						
	29	12MD12LSTWA (Therm.sw.) Ø 112 mm	1303645	.						
	30	24MD22LSTWA (Therm.sw.) Ø 112 mm	1303646	.						



Example of Order Code Structure:

Sect:

He2 - AE024 - 43 - 150 - B - 25 - BE - 6 - W - 2 - AA - 0 - A - 00 - 00

I II III IV V VI VII VIII IX X XI XII XIII XIV XV

Sect I	Code He2	He2000 Adaptor Size He2000 adaptor	He2000 kit no.	HE Box	Sect VI	Code	He2000 Motor	He2000 kit no.	HE Box
II	Code	He2000 Coil volt.+ valve type			27	12MD12THSWA (with fan) Ø 112 mm	1303602	.	
	AA000	Adaptor Kit	1303404	.	28	24MD22THSWA (with fan) Ø 112 mm	1303603	.	
	AE012	Valve Kit 12V 2/2 norm closed	1303386	.	29	12MD12LSTWA (Therm.sw.) Ø 112 mm	1303604	.	
	AE024	Valve Kit 24V 2/2 norm closed	1303387	.	30	24MD22LSTWA (Therm.sw.) Ø 112 mm	1303605	.	
	AE230	Valve Kit 230V 2/2 norm closed	1303389	.	31	24MF22S-HWA Ø 134 mm	1303606	.	
		Adaptor Kit	1303405	.	33	24MD22S-WALX2	1303914	.	
	AF012	Valve Kit 12V 2/2 norm closed in block	1303406	.	34	24MD22S-WALX	1303915	.	
	AF024	Valve Kit 24V 2/2 norm closed in block	1303407	.	50	AC flange B14-71	1303480	.	
	AF230	Valve Kit 230V 2/2 norm closed in block	1303409	.	51	AC flange B14-80	1303481	.	
		Adaptor Kit	1303404	.	52	AC flange B14-90	1303482	.	
		Valveblock Kit	1303410	.	53	AC flange B14-100	1303483	.	
	AG012	Valve Kit 12V 2x 2/2 norm closed in block	1303411	.					
	AG024	Valve Kit 24V 2x 2/2 norm closed in block	1303412	.					
	AG230	Valve Kit 230V 2x 2/2 norm closed in block	1303414	.					
		Adaptor Kit	1303404	.					
	AL012	Valve kit 12V 4/2 in block	1303392	.					
	AL024	Valve kit 24V 4/2 in block	1303393	.					
	AL230	Valve kit 230V 4/2 in block	1303395	.					
		Adaptor kit	1303404	.					
		Valveblock kit	1303423	.					
	AT000	Adaptor Kit	1303404	.					
		Manually oper. 2/2 release valve in block	1303424	.					
	AN000	Adaptor kit	1303405	.					
		Port plug kit	1303425	.					
	AO012	Valve kit 12V, code AE with manual override	1303396	.					
	AO024	Valve kit 24V code AE with manual override	1303397	.					
	AO230	Valve kit 230V code AE with manual override	1303399	.					
		Adaptor kit	1303405	.					
	AP000	Adaptor kit	1303404	.					
		Cetop block, head	1303426	.					
	AQ000	Adaptor kit	1303404	.					
		Cetop block, head	1303427	.					
		Cetop block, 1 pcs	1303428	.					
	AR000	Adaptor kit	1303404	.					
		Cetop block, head	1303429	.					
		Cetop block, 2 pcs	1303430	.					
	AS012	Adaptor kit	1303404	.					
		Valve kit 12V 3/2 and 2/2 in block	1303704	.					
		Valve block kit	1303706	.					
	AS024	Adaptor kit	1303404	.					
		Valve kit 24V 3/2 and 2/2 in block	1303705	.					
		Valveblock kit	1303706	.					
III	Code	He2000 Pump							
	08	0,8 cm ³	1303435	.					
	12	1,2 cm ³	1303436	.					
	16	1,6 cm ³	1303437	.					
	20	2,0 cm ³	1303438	.					
	26	2,5 cm ³	1303439	.					
	32	3,2 cm ³	1303440	.					
	38	3,8 cm ³	1303441	.					
	43	4,3 cm ³	1303442	.					
	48	4,8 cm ³	1303443	.					
	57	5,7 cm ³	1303444	.					
	80	1,2 cm ³ WQ	1303619	.					
	81	1,6 cm ³ WQ	1303620	.					
	82	2,0 cm ³ WQ	1303621	.					
	83	2,5 cm ³ WQ	1303622	.					
	84	3,2 cm ³ WQ	1303623	.					
	85	3,8 cm ³ WQ	1303624	.					
	86	4,3 cm ³ WQ	1303625	.					
	87	4,8 cm ³ WQ	1303626	.					
	88	5,7 cm ³ WQ	1303627	.					
IV	Code	He2000 Relief valve Setting 50-250 bar, eg 150 bar (3 digits)	1303525	.					
V	Code	He2000 Flow control valve							
	A	None							
	E	4 l/min	1303448	.					
	K	8 l/min	1303450	.					
	M	10 l/min	1303453	.					
	N	11 l/min	1303451	.					
	R	15 l/min	1303452	.					
	B	17,5 l/min	1303601	.					
VI	Code	He2000 Motor							
	22	12MD32A Ø 112 mm	1303707	.					
	32	24MD32A Ø 112 mm	1303709	.					
	20	12MD12-WA Ø 112 mm	1303462	.					
	21	12MD12TWA (Therm.sw.) Ø 112 mm	1303463	.					
	25	24MD22-WA Ø 112 mm	1303464	.					
	26	24MD22TWA (Therm.sw.) Ø 112 mm	1303465	.					
	35	24MA42-HSWAL Ø 125 mm fan	1303470	.					
	36	24MA42THSWAL (Therm.sw.) Ø 125 mm fan	1303471	.					
	45	24MA42-WAL Ø 125 mm	1303476	.					
VII	Code	He2000 Reservoir							
	BA	1,0 l usable, horizontal, cyl., plastic							
	BB	0,9 l usable, vertical, cyl., plastic							
	BC	1,6 l usable, horizontal, cyl., plastic							
	BD	1,3 l usable, vertical, cyl., plastic							
	BE	1,8 l usable, horizontal, cyl., plastic							
	BF	1,8 l usable, vertical, cyl., plastic							
	BG	1,5 l usable, horizontal, cyl., steel							
	BH	1,5 l usable, vertical, cyl., steel							
	BJ	2,8 l usable, horizontal, cyl., steel							
	BK	2,9 l usable, vertical, cyl., steel							
	BL	3,4 l usable, horizontal, cyl., steel							
	BM	2,0 l usable, vertical, cyl., steel							
	BN	5,6 l usable, horizontal, cyl., steel							
	BO	4,4 l usable, vertical, cyl., steel							
	BP	6,2 l usable, horizontal, cyl., steel							
	BQ	5,6 l usable, vertical, cyl., steel							
	BR	6,3 l usable, horizontal, rect., steel							
	BS	7,0 l usable, vertical, rect., steel							
	BT	10,6 l usable, horizontal, rect., steel							
	BU	12,1 l usable, vertical, rect., steel							
	BV	5,2 l usable reservoir-kit He2000 in a box							.
VIII	Code	He2000 Motor terminal screw pos.							
	0	12 o'clock to pad A							
	3	Terminal bolts at 3 o'clock to pad A							
	6	Terminal bolts at 6 o'clock to pad A							
	9	Terminal bolts at 9 o'clock to pad A							.
IX	Code	He2000 Start switch							
	A	None							
	W	12V Ø 112 mm						1303702	.
	X	24V Ø 112 mm						1303703	.
	G	24V Ø 125 mm heavy duty, SW80PL						1303523	.
X	Code	He2000 Start switch position							
	0	12 o'clock to pad A							
	2	Relative to motor terminal							
	3	3 o'clock to pad A							
	6	6 o'clock to pad A							
	9	9 o'clock to pad A							
	A	No switch							
XI	Code	He2000 Tube kit							
	AA	Tube kit included in reservoir kit							.
XII	Code	He2000 Breather position							
	0	12 o'clock to pad A							
	1	10,30 o'clock to pad A							
	3	3 o'clock to pad A							
	6	6 o'clock to pad A							
	9	9 o'clock to pad A							
XIII	Code	He2000 Coil/Lever pos on valve							
	A	12 o'clock = Toward motor							
	B	3 o'clock = Away from center of adaptor							.
	C	6 o'clock = Toward reservoir							.
	D	9 o'clock = Toward center of adaptor							.
	N	None							.
XIV	Code	He2000 Access 1							
	00	No accessories							
	03	Handpump						1303524	.
	28	HE box 400 mm						1303607	.
	28	Cover to 400 mm box						1303608	.
	28	Box assembly kit						1303609	.
	29	HEQ box 400 mm						1303610	.
	29	Cover sound absorbed 400 mm box						1303611	.
	29	Box assembly kit							.
	30	HE box 520 mm box						1303613	.
	30	Cover to 520 mm box						1303614	.
	30	Box assembly kit						1303615	.
	31	HEQ box 520 mm						1303616	.
	31	Cover sound absorbed 540 mm He-box						1303617	.
	31	Box assembly kit							.
XV	Code	He2000 Access 2							
	00	No accessories							


Example of Order Code Structure: He22 - BE024 - 73 - 150 - K - A - 25 - BA - 3 - W - 6 - AA - 0 - A - 00 - 00

Sect I	Code He22	He2200 Adaptor Size He2200 adaptor	He2200 kit no.	HE Box	Sect VIII	Code BA BB BC BD BE BF BG BH BJ BK BL BM BN BO BP BQ BR BS BT BU BV	He2200 Reservoir 1,0 l usable, horizontal, cyl., plastic 0,9 l usable, vertical, cyl., plastic 1,6 l usable, horizontal, cyl., plastic 1,3 l usable, vertical, cyl., plastic 1,8 l usable, horizontal, cyl., plastic 1,8 l usable, vertical, cyl., plastic 1,5 l usable, horizontal, cyl., steel 1,5 l usable, vertical, cyl., steel 2,8 l usable, horizontal, cyl., steel 2,9 l usable, vertical, cyl., steel 3,4 l usable, horizontal, cyl., steel 2,0 l usable, vertical, cyl., steel 5,6 l usable, horizontal, cyl., steel 4,4 l usable, vertical, cyl., steel 6,2 l usable, horizontal, cyl., steel 5,6 l usable, vertical, cyl., steel 6,3 l usable, horizontal, rect., steel 7,0 l usable, vertical, rect., steel 10,6 l usable, horizontal, rect., steel 12,1 l usable, vertical, rect., steel 5,2 l usable reservoir-kit He2000 in a box	He2200 kit no.	HE Box
II	Code BA000 BE012 BE024 BF012 BF024 BG012 BG024 BH012 BH024 BL012 BL024 BM012 BM024	He2200 Coil volt.+ valve type Adaptor kit Valve kit 12V 2/2 NC Valve kit 24V 2/2 NC Adaptor kit Valve kit 12V 2/2 + 2/2 proportional Valve kit 24V 2/2 + 2/2 proportional Adaptor kit Valve kit 12V 2x 2/2 proportional Valve kit 24V 2x 2/2 proportional Adaptor kit Valve kit 12V 2/2 Valve kit 24V 4/2 Adaptor kit Valve kit 12V 2/2 + 3/2 Valve kit 24V 2/2 + 3/2 Adaptor kit	1303786 1303386 1303387 1303756 1303787 1303788 1303757 1303789 1303790 1303758 1303791 1303792 1303759 1303392 1303393 1303760 1303704 1303705 1303761	.					.
III	Code 08 12 16 20 26 32 38 43 48 57 80 81 82 83 84 85 86 87 88	He2200 Pump 0,8 cm ³ 1303766 1,2 cm ³ 1,6 cm ³ 2,0 cm ³ 2,5 cm ³ 3,2 cm ³ 3,8 cm ³ 4,3 cm ³ 4,8 cm ³ 5,7 cm ³ 1,2 cm ³ WQ 1,6 cm ³ WQ 2,0 cm ³ WQ 2,5 cm ³ WQ 3,2 cm ³ WQ 3,8 cm ³ WQ 4,3 cm ³ WQ 4,8 cm ³ WQ 5,7 cm ³ WQ	1303767 1303768 1303769 1303770 1303771 1303772 1303773 1303774 1303775 1303776 1303777 1303778 1303779 1303780 1303781 1303782 1303783 1303784
IV	Code ***	He2200 Relief valve Setting 50-250 bar, eg 150 bar (3 digits)	1303785	.					
V	Code A E K M N R B	He2200 Flow control valve 1 (only applicable in combination with Adapter code BE, BF and BM) None 4 l/min 8 l/min 10 l/min 1303453 11 l/min 1303451 15 l/min 1303452 17,5 l/min	1303448 1303450 .	.					
VI	Code A **	He2200 Flow control valve 2 (only applicable in combination with Adapter code BG, BH and BL) None Setting 10-35 l/min, eg 12 litres (2 digits)	1303601	.					
VII	Code 20 22 24 26 28 30	He2200 Motor 12MD12-HE 24MD22-HE 24MA42-HE 24MF22S-HE 24MD22S-HEX2 24MD22-HEX	1303762 1303763 1303764 1303465 1303912 1303913	.					
XI	Code 0 2 3 6 9 A	He2200 Start switch position 12 o'clock to pad A Relative to motor terminal 3 o'clock to pad A 6 o'clock to pad A 9 o'clock to pad A No switch	1303702 1303703 1303523	.					
XII	Code AA AB	He2200 Tube kit Tube kit included in reservoir kit Tube kit for adapter codes BA, BE, BF, BG, BH	1303859	.					
XIII	Code 0 1 3 6 9	He2200 Breather position 12 o'clock to pad A 10.30 o'clock to pad A 3 o'clock to pad A 6 o'clock to pad A 9 o'clock to pad A	1303608	.					
XIV	Code A B C D N	He2200 Coil/Lever pos on valve 12 o'clock = Toward motor 3 o'clock = Away from center of adaptor 6 o'clock = Toward reservoir 9 o'clock = Toward center of adaptor None	1303609 1303610 1303611	.					
XV	Code 00 03 28 28 28 29 29 29 30 30 31 31 31	He2200 Access 1 No accessories Handpump HE box 400 mm Cover to 400 mm box Box assembly kit HEQ box 400 mm Cover sound absorbed 400 mm box Box assembly kit HE box 520 mm box Cover to 520 mm box Box assembly kit HEQ box 520 mm Cover sound absorbed 540 mm He-box Box assembly kit	1303793 1303607 1303608 1303609 1303610 1303611 1303613 1303614 1303615 1303616 1303617	.					
XVI	Code 00	He2200 Access 2 No accessories							

Readers notes:



PRODUCT RANGE

HE Powerpacks

12/24/48 VDC 0.3 – 4.5 kW and
0.75 – 3 kW AC modular power packs

HE Box Powerpacks

12/24/48 VDC modular powerpacks
in weatherproof boxes

Pressure Switches

5 - 350 bar, connecting/disconnecting

W100 Hydraulic pumps

0,5 - 2,0 cc 227 bar

W300 Hydraulic pumps

0,8 – 5,7 cc 230 bar

W600 Hydraulic pumps / motors

3 – 12 cc 276 bar

W900 Hydraulic pumps / motors

5 – 31 cc/section 276 bar

Calma The new quiet pumps

6,2 - 23,7 cc/section 250 bar

WQ900 The quiet pumps

5 - 23 cc/section 230 bar

WP900X Hydraulic pumps

16 - 31 cc/section 276 bar

W1500 Hydraulic pumps / motors

19 - 50 cc/section 276 bar

F12 FERRA Heavy duty pumps

16 - 41 cc/section 276 bar

F15 FERRA Heavy duty pumps

19 - 50 cc/section 276 bar

F20/F30 (LS) Hydraulic pumps / motors

23 – 161 cc/section 276 bar

GPA Internal Gear pumps

1,7 – 63 cc/section 100 bar

GC Hydraulic pumps / motors

1,06 – 11,65 cc/section 276 bar

D Hydraulic pumps

3,8 – 22,9 cc/section 207 bar

H Hydraulic pumps

9,8 – 39,4 cc/section 207 bar

II-Stage Hydraulic pumps

4,2 – 22,8 cc/section 276 bar

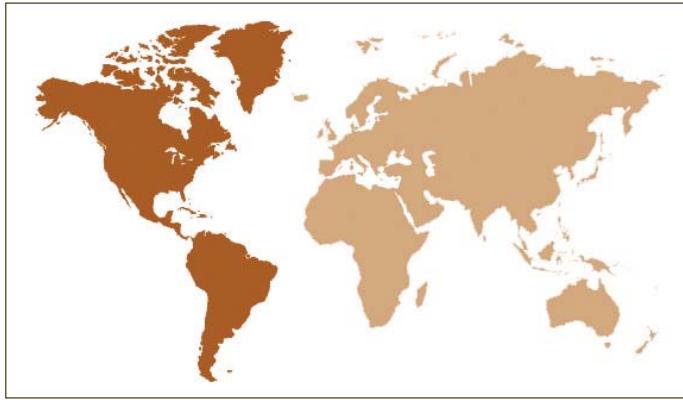
Rotary Flow Dividers

3,8 – 13,3 cc/section 300 bar

Transmission pumps

Concentric AB-He1000 He2000 He2200-GB-2011-7

www.concentricAB.com



Concentric Rockford Corp.
2222 15th Street
ROCKFORD, IL 61104
USA
Tel: +1-815 398 4400
Fax: +1-815 398 5977
E-mail: info.hydraulics.us@concentricAB.com

Concentric Skanes AB
Box 95
SE-280 40 SK. FAGERHULT
Sweden
Tel: +46-433 32400
Fax: +46-433 30546
E-mail: info.hydraulics.eu@concentricAB.com

Concentric Hof GmbH
Postfach 1507
D-95014 HOF
Germany
Tel: +49-9281 895-0
Fax: +49-9281 87133
E-mail: info.hydraulics.eu@concentricAB.com

Concentric Suzhou Co. Ltd.
47 Dongjing Industrial Park
9 Dong Fu Lu
SIP, Suzhou
Jiangsu
China 215123
Tel +86 512 8717 5100
Fax +86 512 8717 5101
info.chsh@concentricAB.com



Concentric is an innovator in flow control and fluid power, supplying proprietary systems and components for trucks, buses and industrial vehicles, worldwide. With 1,156 employees and sales of 1,977 million Swedish Kronor, Concentric AB is listed on the Stockholm Stock Exchange (www.concentricAB.com).

Concentric will not accept responsibility for any catalog errors and reserves the right to modify its products without prior notice. This also applies to products already ordered, provided that such modifications can be made without affecting technical specifications. All trademarks in this material are properties of their respective owners.