

HPU

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HPU Micro Pack

The HPU Uni-directional Hydraulic Power Pack offers the flexibility to operate single acting hydraulic functions within a very compact space. With 150W to 800W DC Motors and 0.15 to 0.37kW AC Motors the gear pump can produce pressures up to 200bar. Single acting circuit consisting of a low leakage check valve and a Solenoid operated release valve allowing a cylinder to hold in position and lower under gravity.

Micro Pack applications include:

- Wheelchair Lifts
- Brakes
- Bath Lifts
- Clamping System

Hydraproducts have a proven record of performance.

- 100% testing
- Fast deliveries
- Product support
- 3D Solid Modelling facilities

HPU Micro Pack

Die HPU Uni-direktionale Hydraulische Power Pack bietet die Flexibilität, einfachwirkend hydraulische Funktionen in einem sehr kompakten Betrieb Raum. Mit 150W bis 800W DC-Motoren und 0,15 bis 0,37 Drehstrommotoren die Zahnradpumpe produzieren können Drücke bis zu 200 bar. Einfachwirkende Schaltung bestehend aus einem verlustarmen Rückschlagventil und ein Magnetventil Ablassventil ermöglicht einen Zylinder in Position zu halten und unteren unter Schwerkraft.

Anwendungen gehören:

- Rollstuhl-Aufzüge
- Bremsen
- Spannsystem

Hydraproducts haben eine nachweisliche Erfahrungen.

- 100%-Prüfung
- Breites Anwendungswissen
- schnelle Lieferungen
- 3D Solidworks

HPU Micro Pack

La HPU Unidireccional Unidad de potencia hidráulica ofrece la flexibilidad para operar las funciones hidráulicas individuales que actúan dentro de un muy compacto espacio. Con 150W a 800W DC Motors y de 0,15 a 0,37 kW Motores de CA de la bomba de engranajes puede producir presiones de hasta 200 bar. Circuito de simple efecto que consiste en una válvula de escape de entrada bajo y una válvula de solenoide de liberación accionada permitiendo un cilindro para mantenerlo en su posición más baja y en virtud de la gravedad.

Aplicaciones incluyen:

- Ascensores para sillas de ruedas
- frenos
- sistema de sujeción

Hydraproducts tienen un historial comprobado de desempeño.

HPU Micro Uni-Directional Hydraulic Power pack range

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DC Motor Range
AC Motor
Motor connection flanges and drive couplings

"XV" Gear Pumps

Mounting orientation

Central Manifold and circuits

Solenoid Valve

Flow Control Insert

Tank and filler

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MOTORS		
1		12 Volt DC
2		24 Volt DC
S		240VAC
T		415VAC
	1	150Watt
	2	250Watt
	5	500Watt
	8	800Watt
M	1	150W 240VAC
M	2	200W 240VAC
	C2	0.37kW 2pole
	D2	0.55kW 2pole

PUMP		
01	0.16cc/rev	
02	0.24	
04	0.45	
05	0.56	
07	0.75	
10	0.98	
12	1.27	
15	1.48	

BODY	
S	Standard
X	Special

MOUNTING	
H	Horizontal
V	Vertical

FLOW CONTROL	
1	Litres/minutes
2	
3	
4	

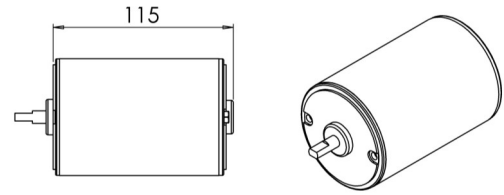
VALVE	
C	Normally closed
O	Normally open
E	Normally closed with Manual override
N	None

TANK		
B		Body Filler
E		End Filler
N		No Filler
S		Side Filler
	01	0.1 Litre Alloy
	02	0.2 Litre Alloy
	05	0.5 Litre Alloy
	10	1.0 Litre Alloy
	05P	0.5 Litre Plastic

MOTORS

DC Motors— 150W and 250W IP44

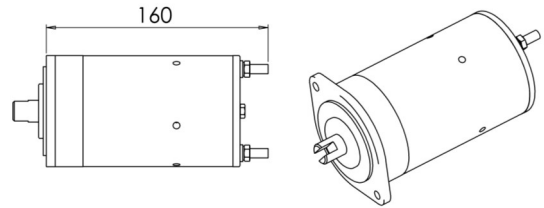
HP4129 12V 150W	11
HP4028 12V 250W	12
HP4135 24V 150W	21
HP4029 24V 250W	22



for performance data see page 8

DC Motors— 500W and 800W IP44

HP4143 12V 500W	15
HP4145 12V 800W	18
HP4144 24V 500W	25
HP4146 24V 800W	28

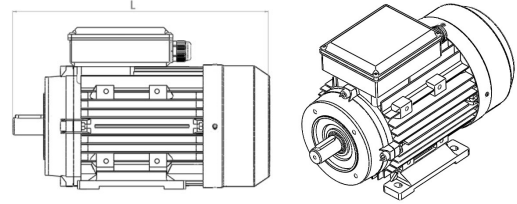


for performance data see page 9

AC Motors - 1 phase 240V 50Hz B34 IEC IP55

0.37kW 2pole 71 frame	L = 180	SC2
0.55kW 2pole 71 frame	180	SD2

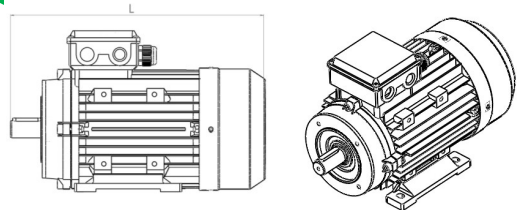
Permanent capacitor motors are preferred with a 0.5-0.9 FLT starting torque.



AC Motors - 3 phase 380/415V 50Hz B34 IEC IP55

0.37kW 2pole 71 frame	L=211	TC2
0.55kW 2pole 71 frame *	225	TD2

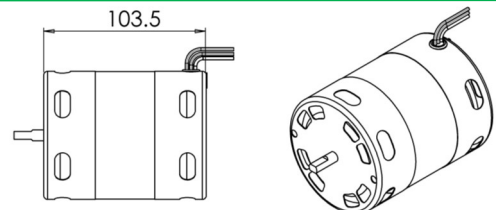
Dual European voltages, up to 3kW 230/400 above 400/690V. Dual 50/60Hz rated. S1 Continuous Duty S1. Thermistors PTC.



AC Motor - 150Watt 240V 50Hz S2 duty

AF1H6912K 240V 150W	M1
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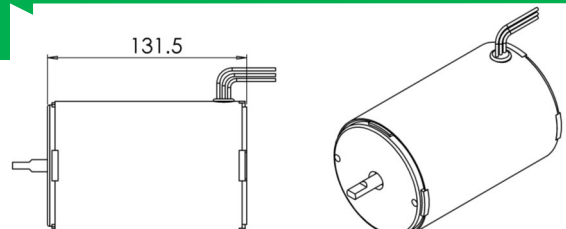
for performance data see page 10



AC Motor - 250Watt 240V 50Hz S2 duty

JF1L7008K 240V 250W	M2
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for performance data see page 10

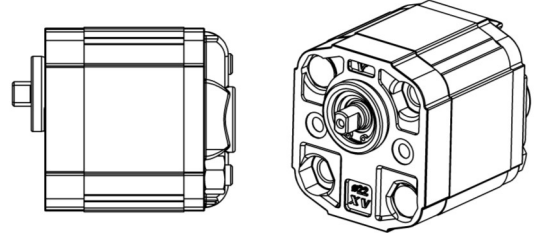


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HYDRAULIC PUMPS

Gear Pump group XV 0

Size cm ³ /rev		Type
0.16	250	01
0.24	180	02
0.45	250	04
0.56	180	05
0.75	250	07
0.98	180	10
1.20	250	12
1.48	180	15



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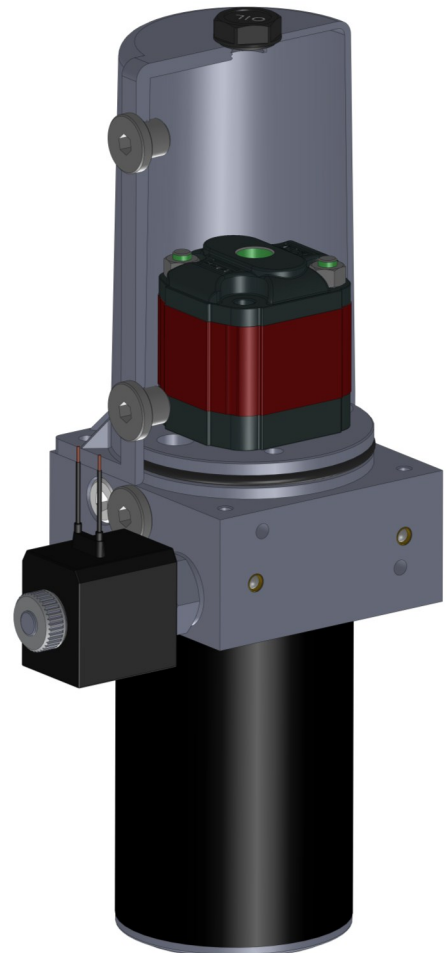
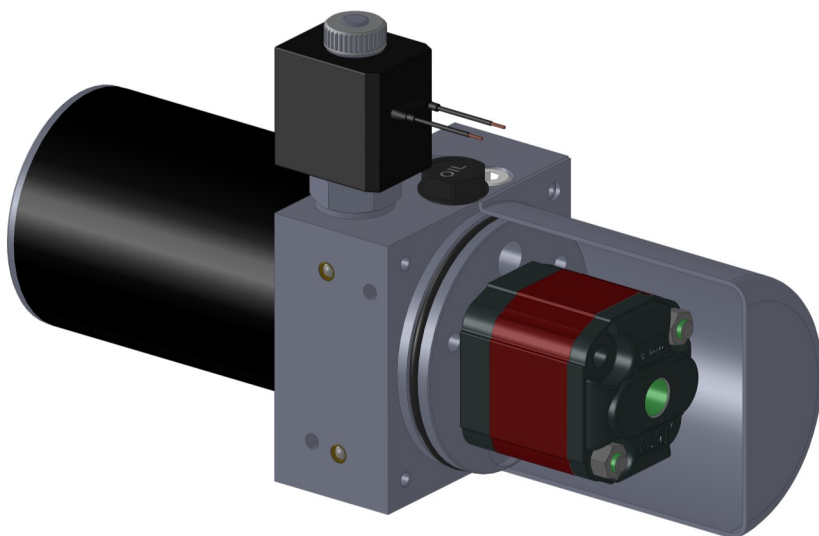
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MOUNTING

Orientation

Position	Type
Horizontal	H
Vertical—Tank uppermost	V



CENTRAL MANIFOLD

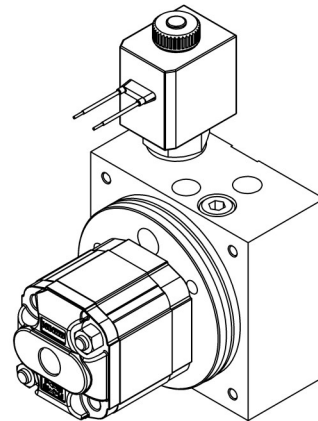
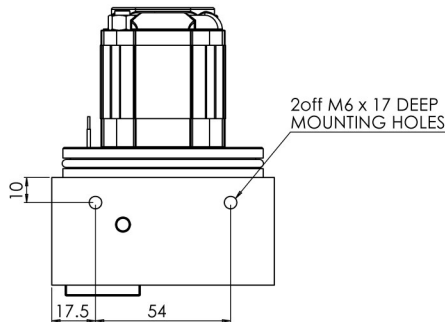
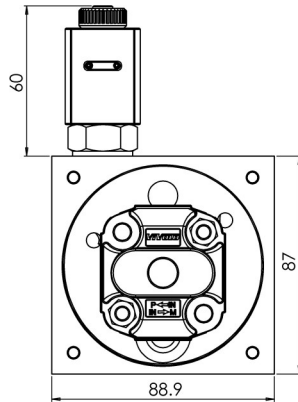
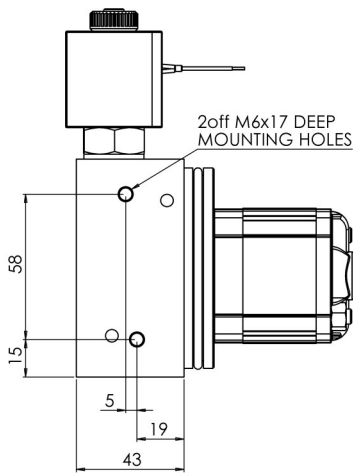
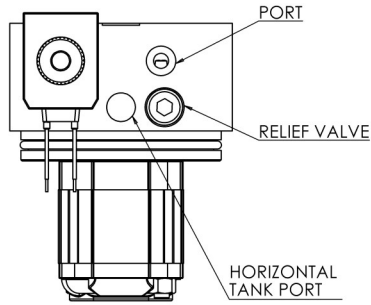
Hydraulic circuit

Body

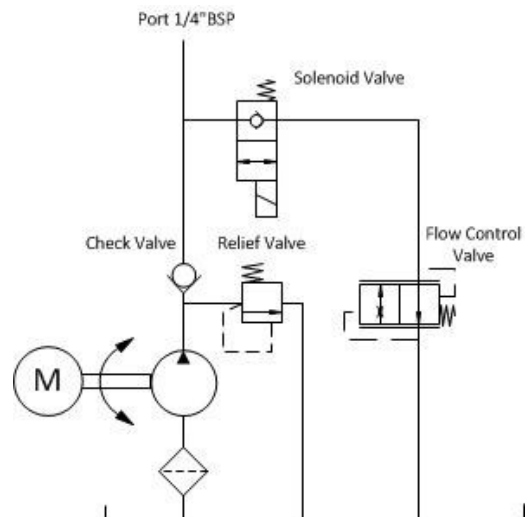
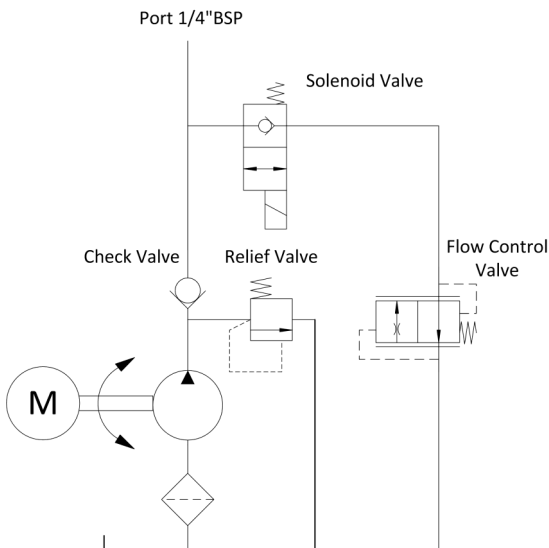
Standard Body with 1/4" BSP Port

S

—Standard Manifold



Hydraulic Circuit -Standard



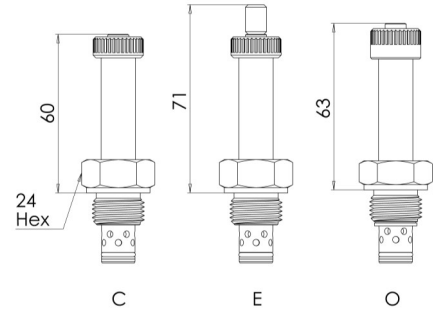
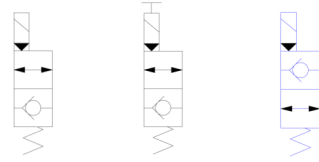
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Single Acting Cartridge Valve

Solenoid Operated

Description

Description	Type
Normally Closed Poppet	C
Normally Closed Poppet with Emergency Override	E
Normally Open Poppet—use 22Watt coils only	O

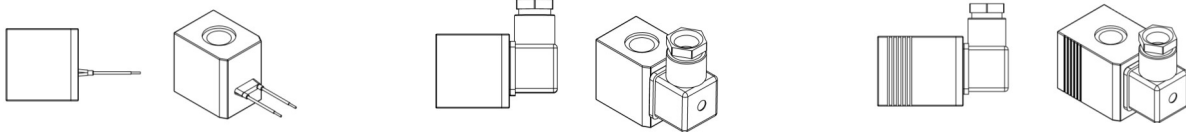


Solenoid Coils

Description

Voltages

18W with Flying leads	12VDC, 24VDC
18Watt with DIN connector	12VDC, 24VDC, 24VAC, 110VAC, 240VAC
22Watt with DIN connector	12VDC, 24VDC, 24VAC, 110VAC, 240VAC

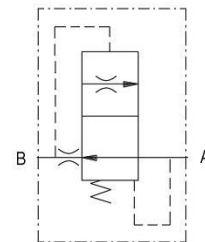
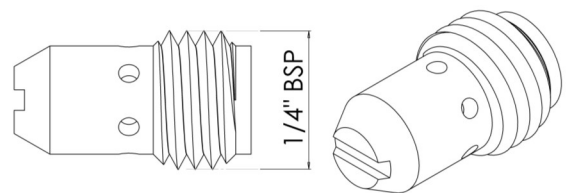


Flow Control Insert

Pressure Compensated Fixed Flow Insert

Description

Description	Type
VSCF01— 1 l/min	1
VSCF02— 2 l/min	2
VSCF03— 3 l/min	3
VSCF04— 4 l/min	4
VSCF05— 5 l/min	5
VSCF06— 6 l/min	6
VSCF07— 7 l/min	7
VSCF08— 8 l/min	8



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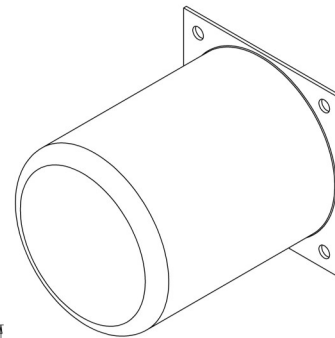
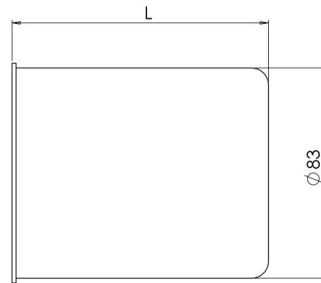
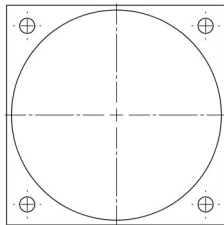
Filler/Breather Positions

Description	Type
Body Filler - in manifold, horizontal only	B
Side Filler - in tank, horizontal only	S
End Filler - in tank end, vertical only	E
No Filler - consult technical sales for this option	N

Aluminium Oil Tank

Cylindrical

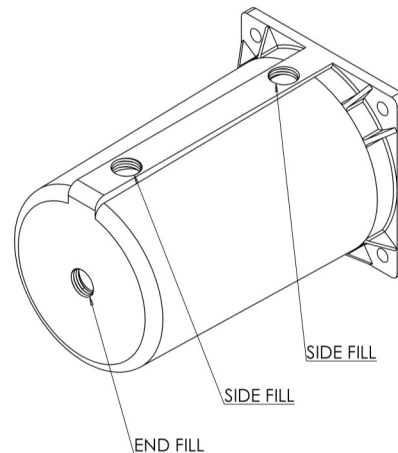
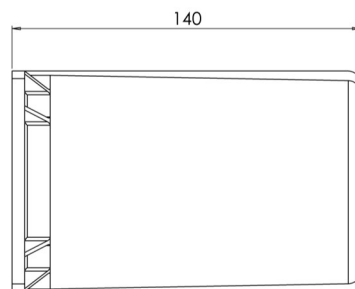
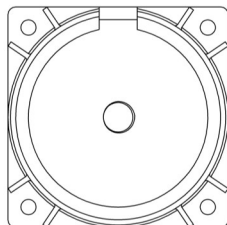
Description	L=Length	Type
0.1 Litre	80	01
0.2 Litre	100	02
0.5 Litre	140	05
1 Litre	240	10



Plastic Oil Tank

0.5 Litre Plastic

05P



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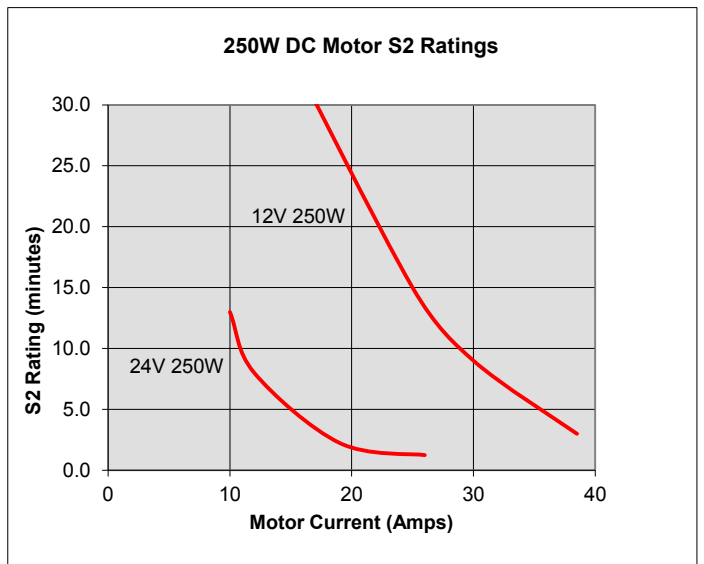
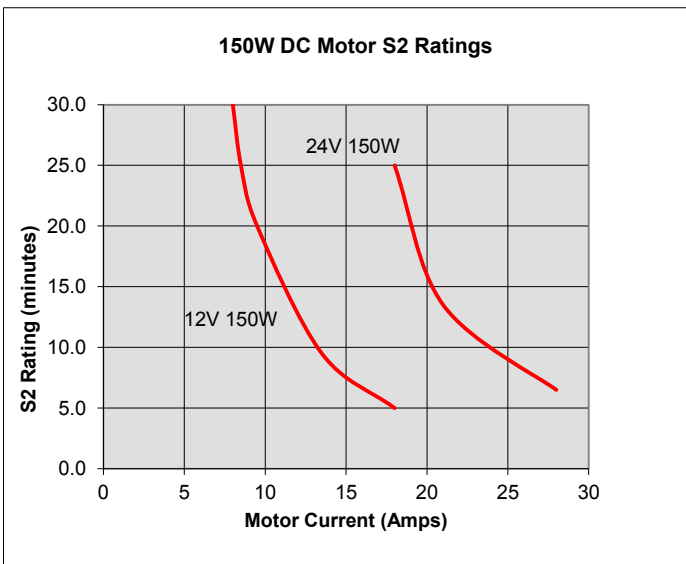
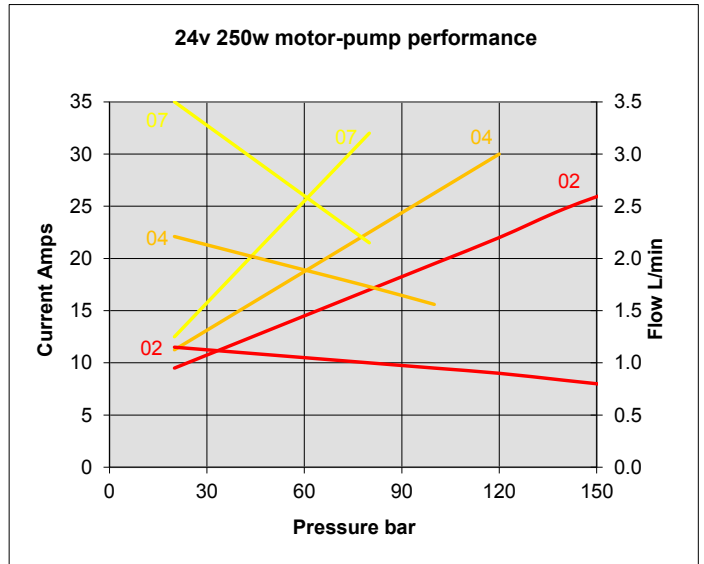
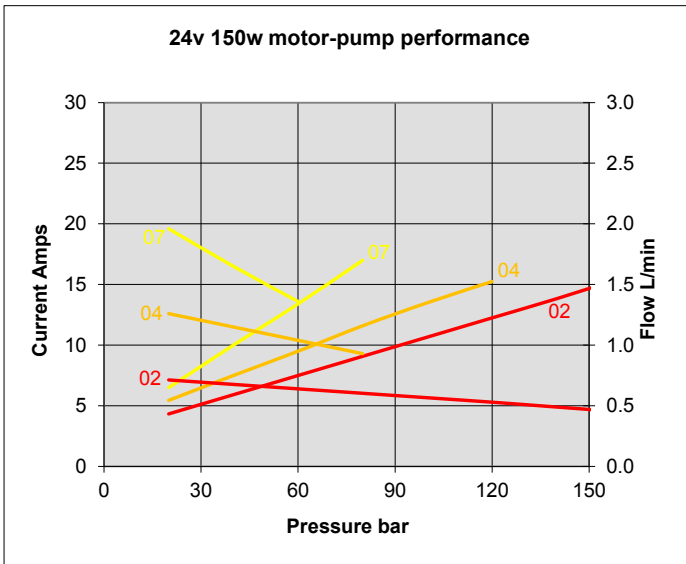
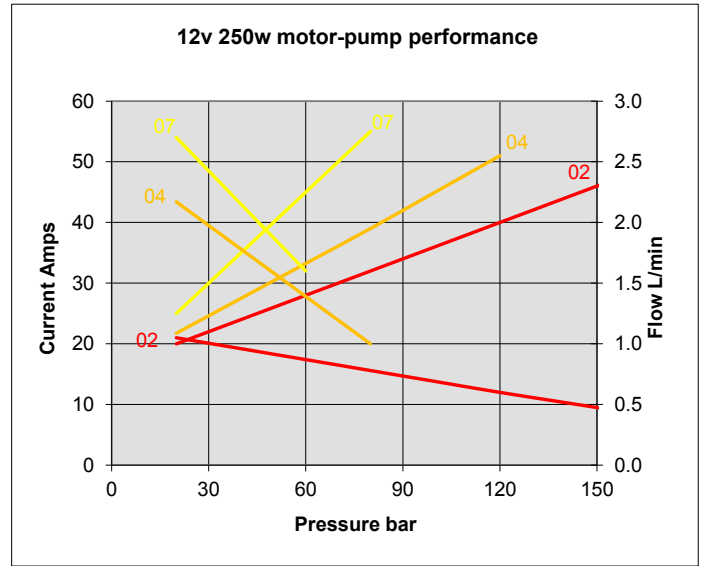
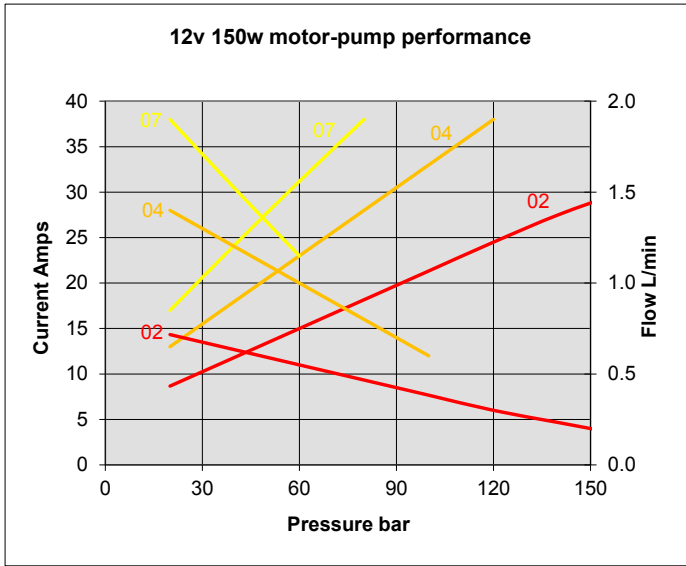
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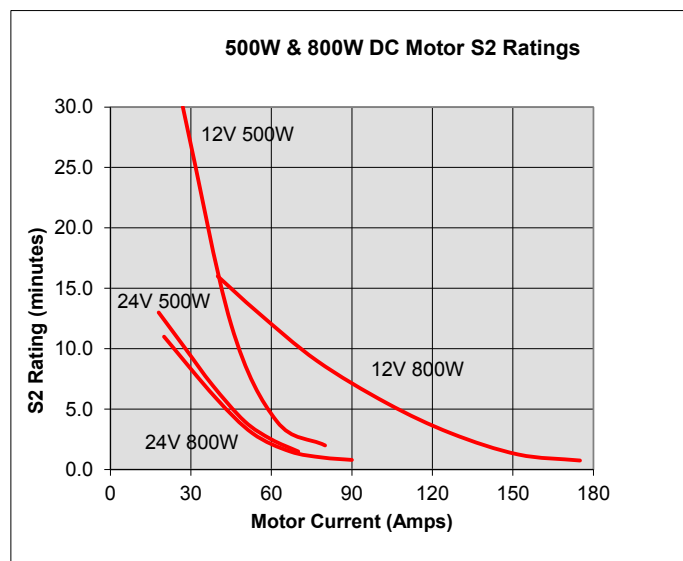
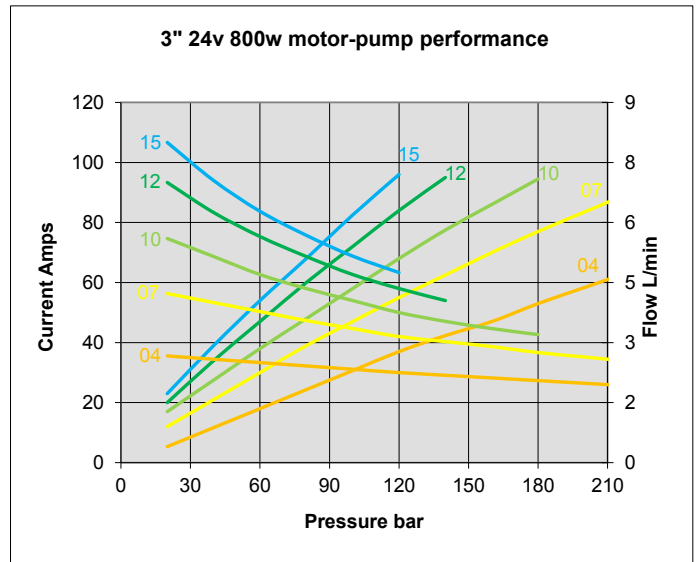
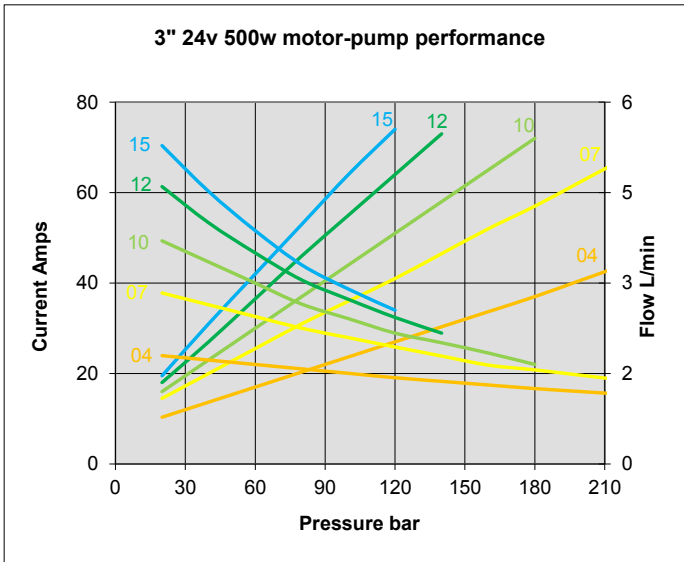
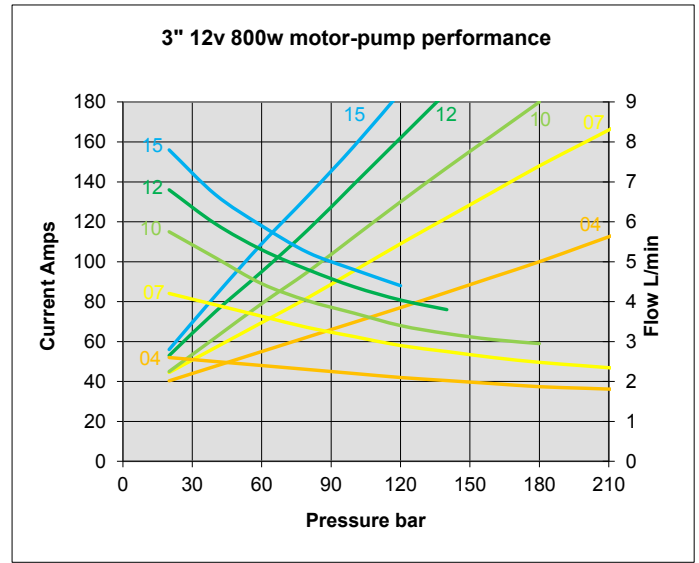
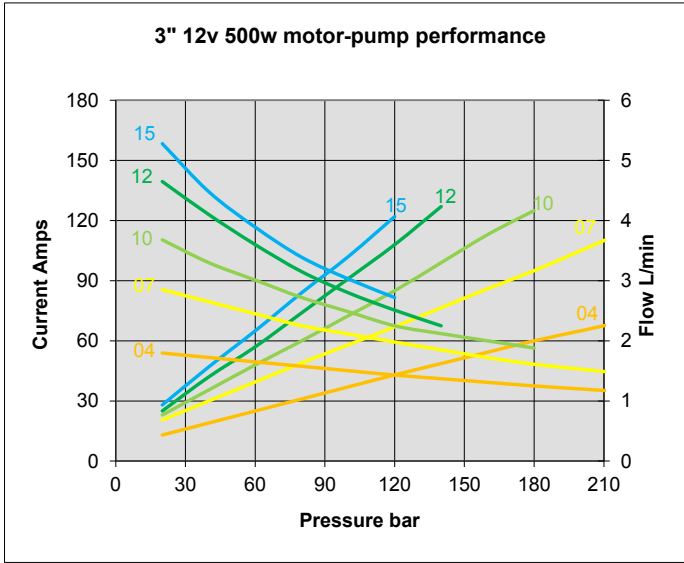
Nominal motor-pump performance at constant voltage and at nominal 20-25° C with ISO 3448/VG22

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S2—Short time Duty— Maximum run time at load, followed by a time of rest to re-establish ambient temperature.

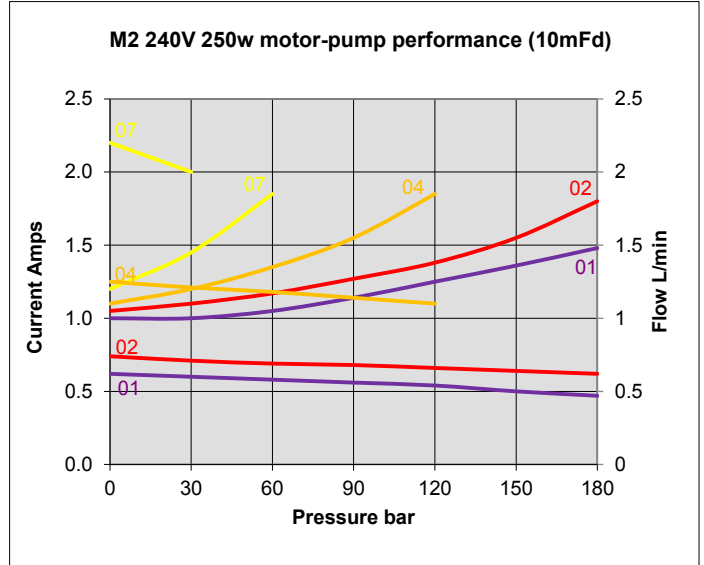
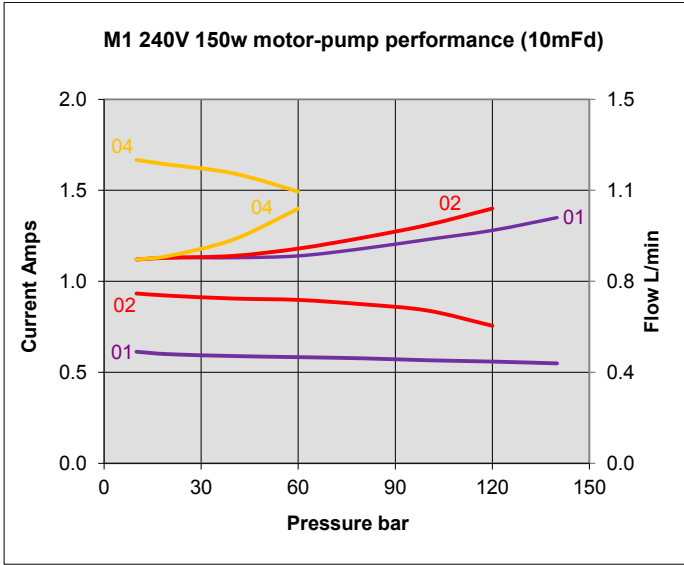
Nominal motor-pump performance at constant voltage and at nominal 20-25° C with ISO 3448/VG22



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S2—Short time Duty— Maximum run time at load, followed by a time of rest to re-establish ambient temperature.

Nominal motor-pump performance at constant voltage and at nominal 20-25° C with ISO 3448/VG22



Hydraulic Data

Maximum Flow 5LPM

Peak Pressure 210 bar

Working Temperature -15 to 70°C

Recommended Hydraulic Oil

Contamination 17/14 ISO 4406 class

Hydraulic Mineral Oil 6743/4 DIN 51519

Viscosity ISO3448/VG32

