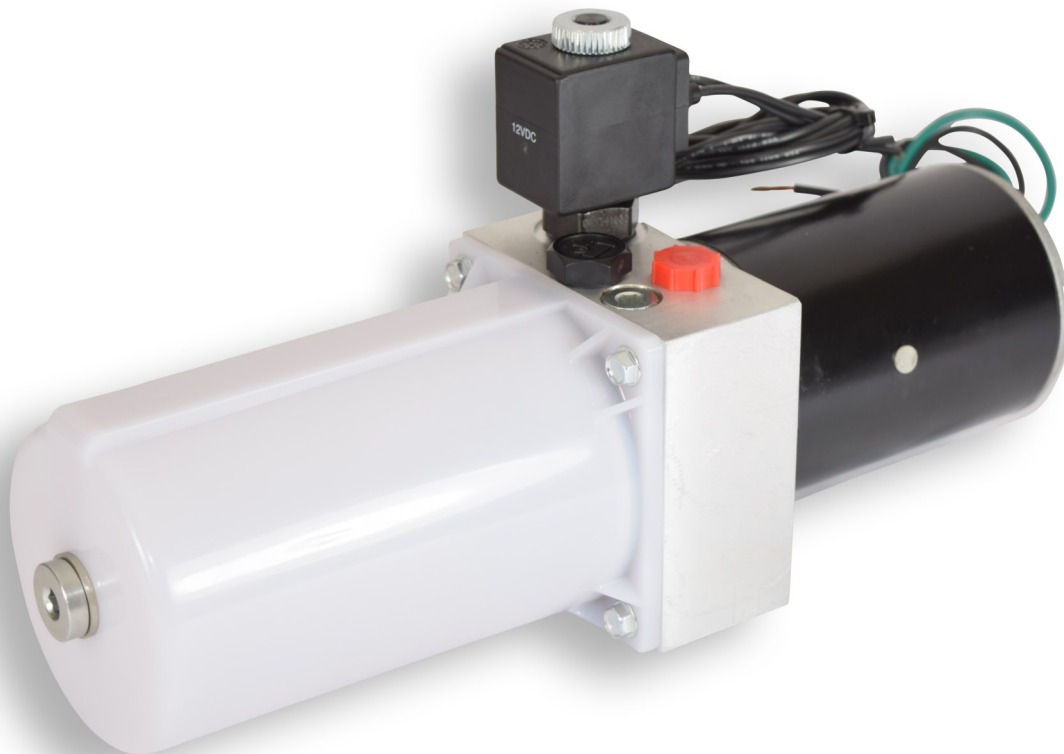




HPU Micro Pack

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 unidirektionale Hydraulik Aggregate bieten sich an, einfach wirkende Funktionen in engen Raum an realisieren. Mit 150W bis 800W DC-Motoren und 0,15 bis 0,37 Drehstrommotoren. Können die zahnradpumpen Druck bis zu 200bar erzeugen. Einfachwirkende System bestehen aus einem Rückschlagventile ein Druckbegrenzungsventile und einem magnetischen Ablaufventil. Dies ermöglicht die last zu halten oder abzusenken

Typische Anwendungen sind

- Rollstuhl Aufzüge
- Bremsen
- Spannsystem
- Patientenheber

Hydraproducts haben eine nachgewiesene reputation.

- Erfahrung in vielen Anwendungen bereiche
- Kurze Lieferzeiten
- Großes Teilelager
- Kundenservice
- Kundenspezifische Produkte
- 3D Produkt design

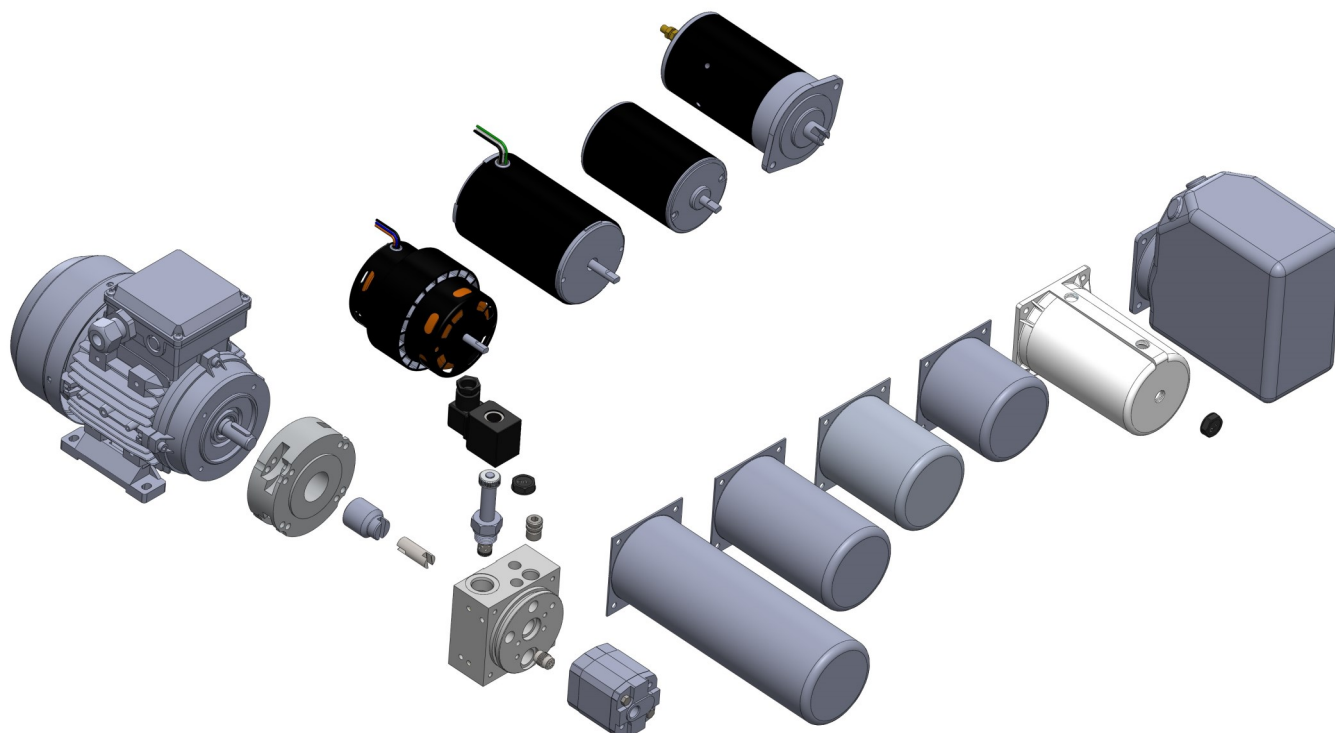
HPU Micro Pack

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

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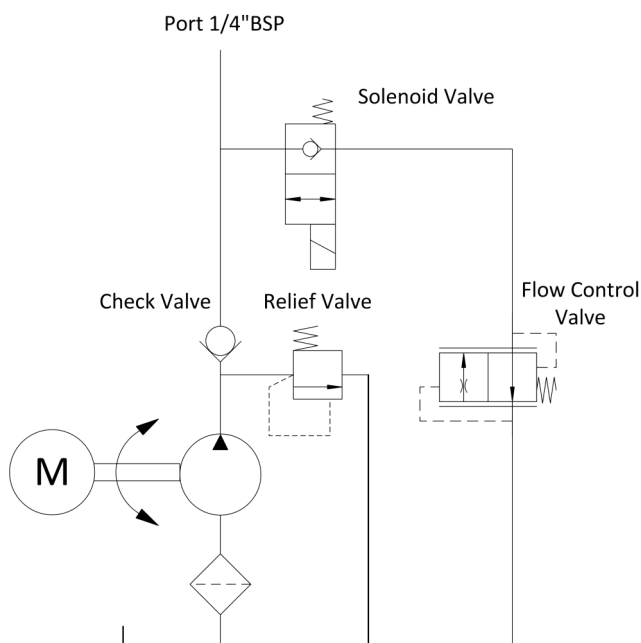
H

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SO1



Specifications

Pump

Type	High pressure gear
Size	0.16 to 1.5 cc/rev

Motors

12 & 24VDC	150, 250, 500 and 800 Watt
240VAC	0.15, 0.25, 0.37 & 0.55kW
415VAC	0.37 & 0.55kW

Hydraulic circuit

Single acting circuits for lifting applications.

Reservoirs

Plastic	0.5 and 1.5 Litre
Aluminium	0.1 to 1 Litre

Performance

Pressure	to 200bar
Flow	to 5lpm

Hydraulic oil

Recommended—Mineral Oil HLP HV 6743/4 DIN 51519
Viscosity ISO3448/VG32 (20-100 permissible)
Operating Temperature -15 to 70°C

HPU Micro Uni-Directional Hydraulic Power pack range

DC Motor Range

AC Motor

Motor connection flanges and drive couplings

11

Gear Pumps

04

Mounting orientation

H

Central Manifold and circuits

S

Solenoid Valve

C

Flow Control Insert

N

Tank and filler

S01

HPU 1 1 04 H S C N S 01

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	

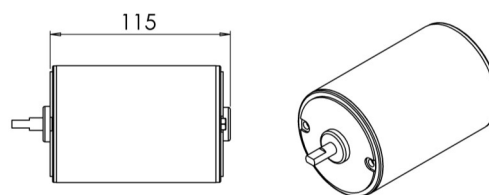
VALVE	
C	Normally closed
O	Normally open
E	Normally closed with Manual override
N	None

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
	15P	1.5 Litre Plastic

MOTORS

DC Motors— 150W and 250W IP44

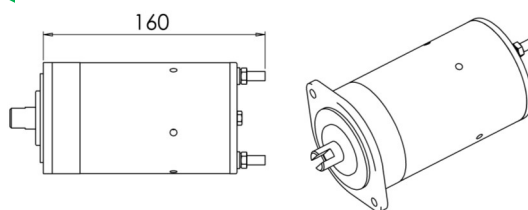
HP4129 12V 150W	11
HP4028 12V 250W	12
HP4135 24V 150W	21
HP4029 24V 250W	22



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

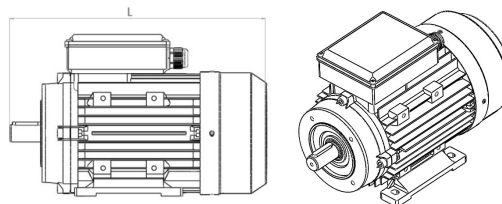


for performance data see page 9

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

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

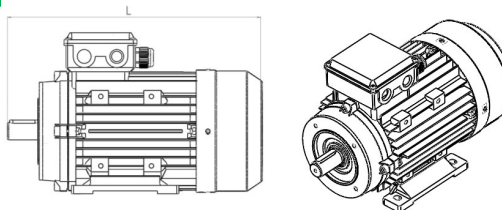
Permanent capacitor motors are preferred with a 0.5-0.9 FLT starting torque.



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.

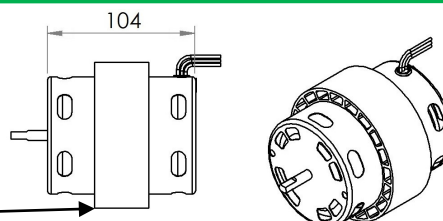


AC Motor - 150Watt 240V 50Hz S2 duty IP20

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

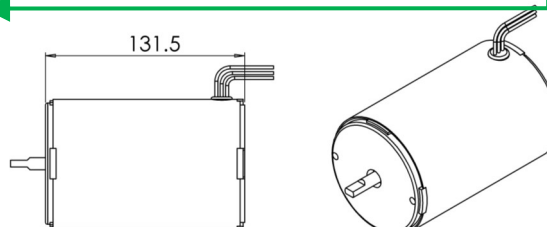
Heat sink is optional



AC Motor - 250Watt 240V 50Hz S2 duty IP44

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



HPU

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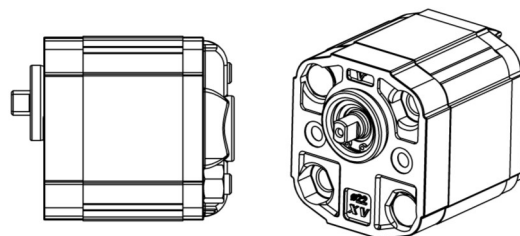
N

SO1

HYDRAULIC PUMPS

Gear Pump group 0

Size cm ³ /rev	P max.	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



HPU

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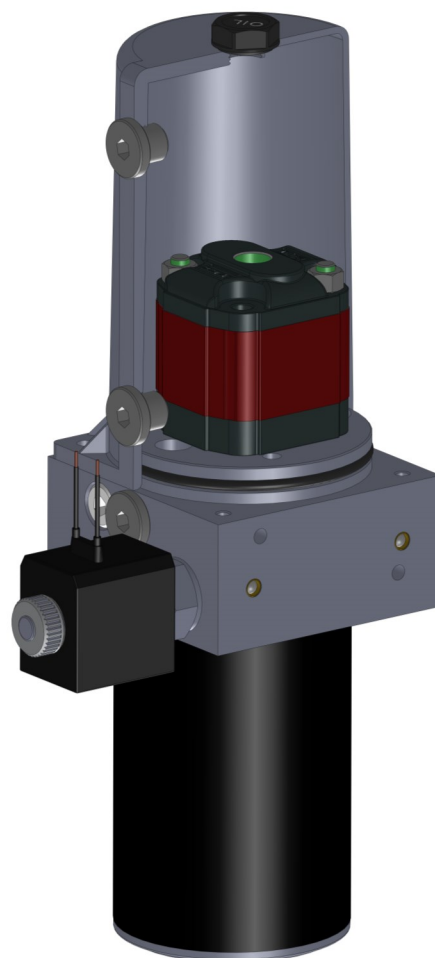
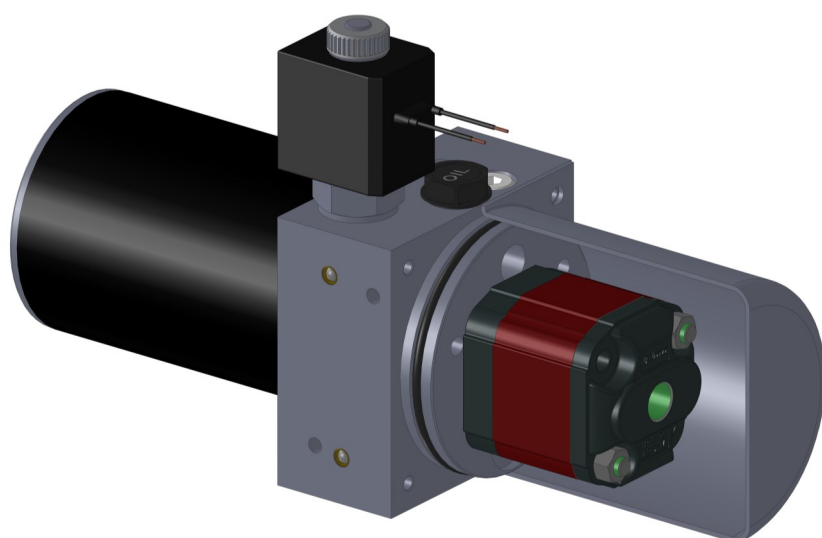
N

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MOUNTING

Orientation

Position	Type
Horizontal	H
Vertical—Tank uppermost	V



CENTRAL MANIFOLD

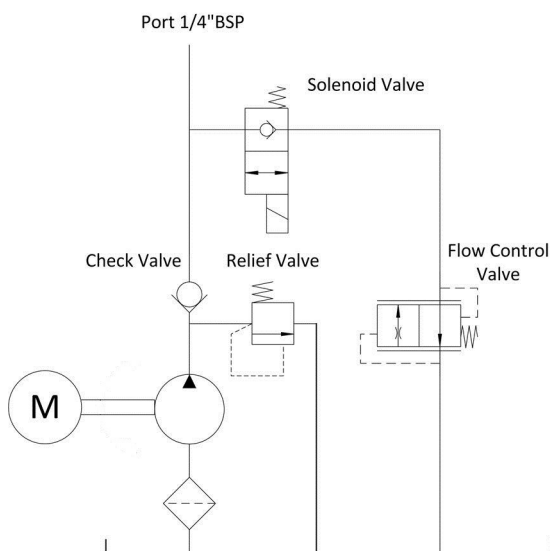
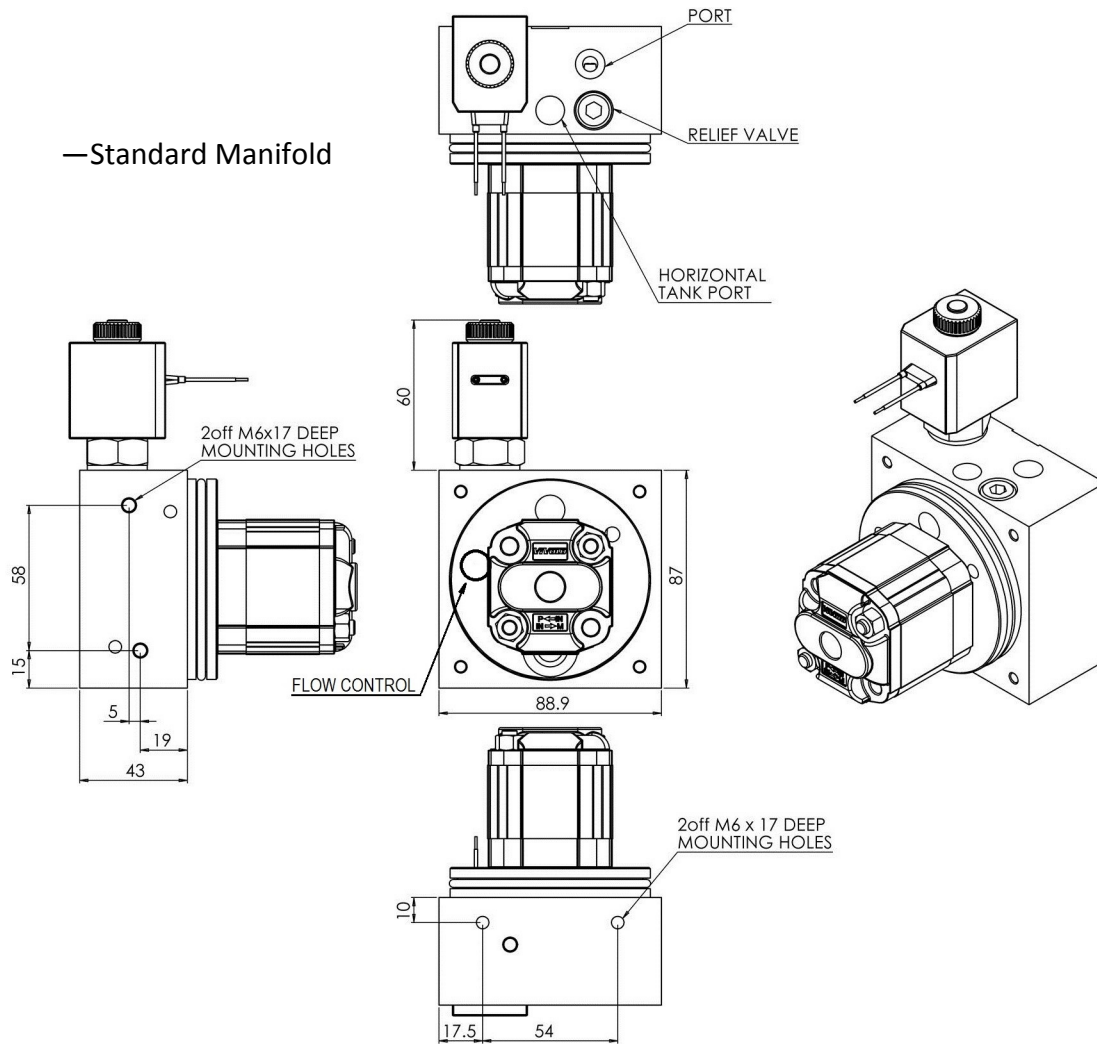
Hydraulic circuit

Body

Standard Body with 1/4" BSP Port

S

—Standard Manifold



Hydraulic Circuit—Standard

HPU

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S01

Single Acting Cartridge Valve

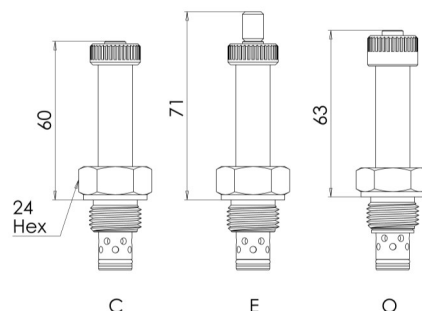
Solenoid Operated

Description

Normally Closed Poppet
Normally Closed Poppet with Emergency Override
Normally Open Poppet—use 22Watt coils only

Type

C
E
O

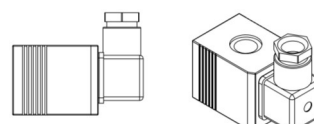
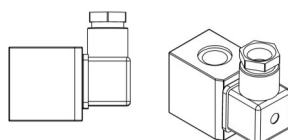
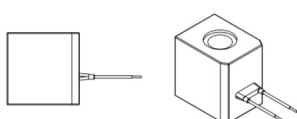


Solenoid Coils

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

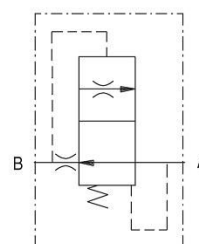
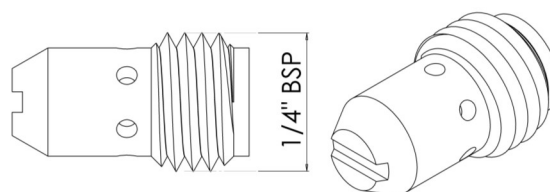
Pressure Compensated Fixed Flow Insert

Description

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

Type

1
2
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4
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8



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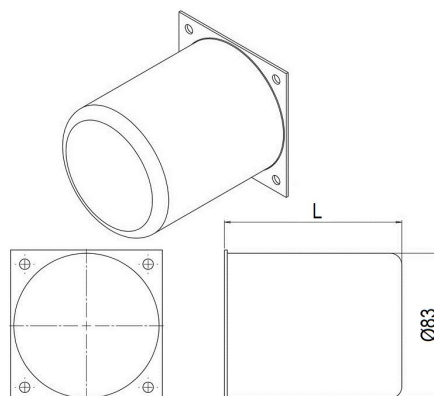
Filler/Breather Positions

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

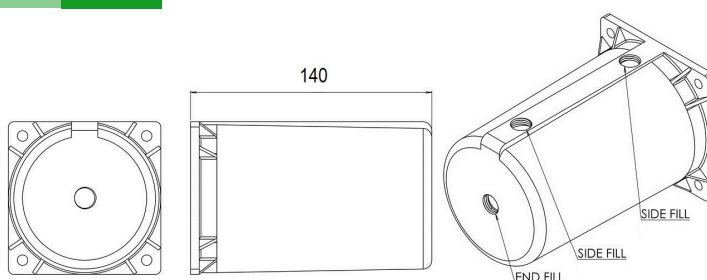
Cylindrical

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

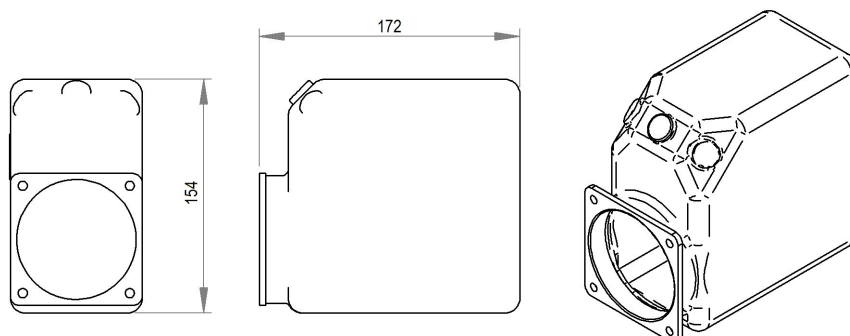


Plastic Oil Tank

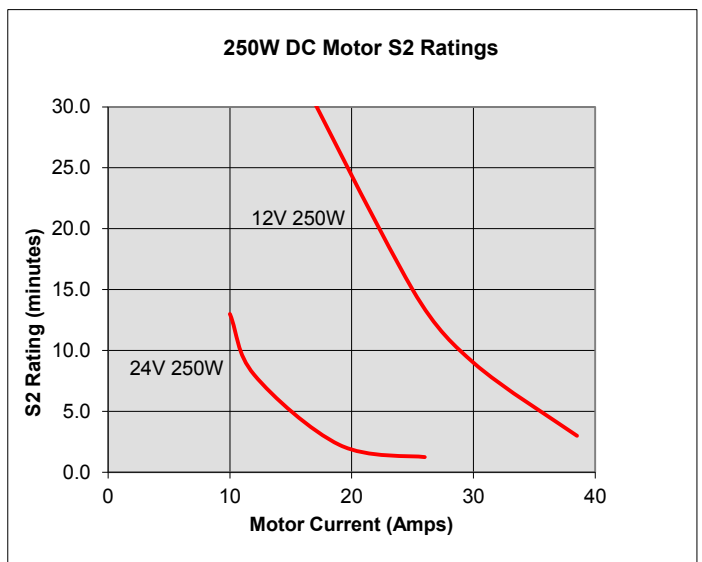
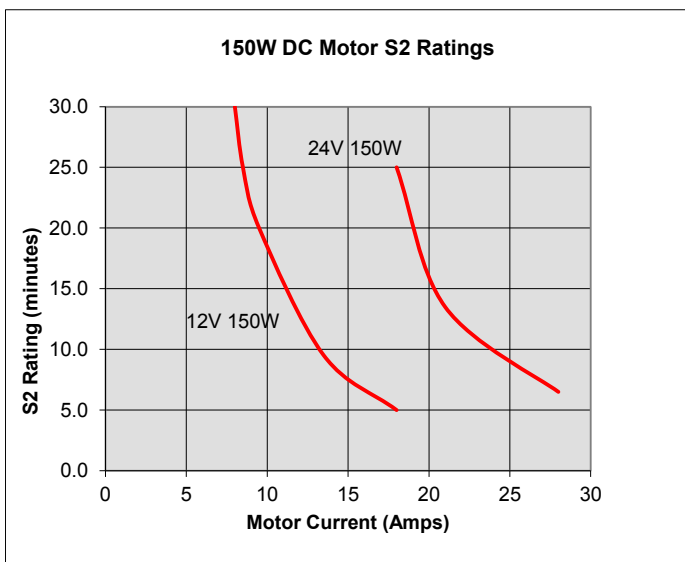
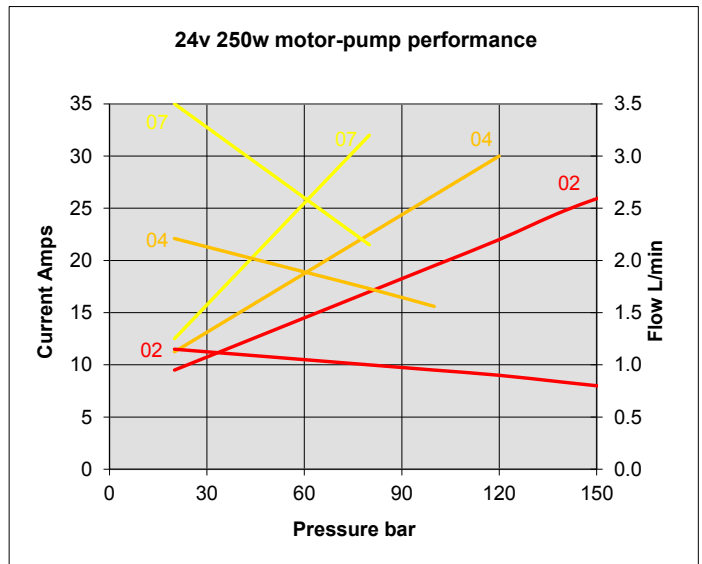
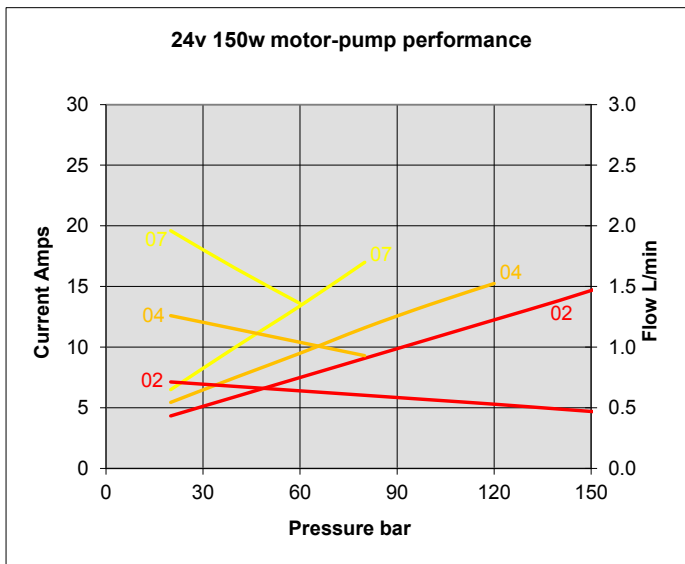
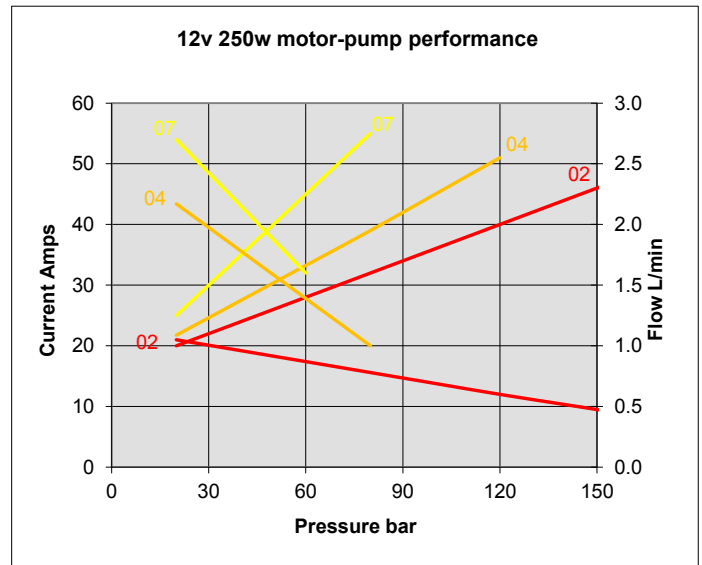
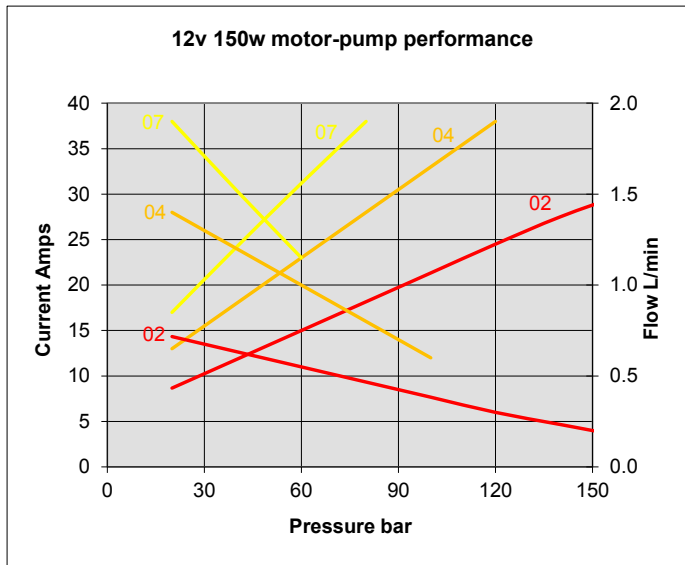
0.5 Litre Plastic	05P
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1.5 Litre Plastic	15P
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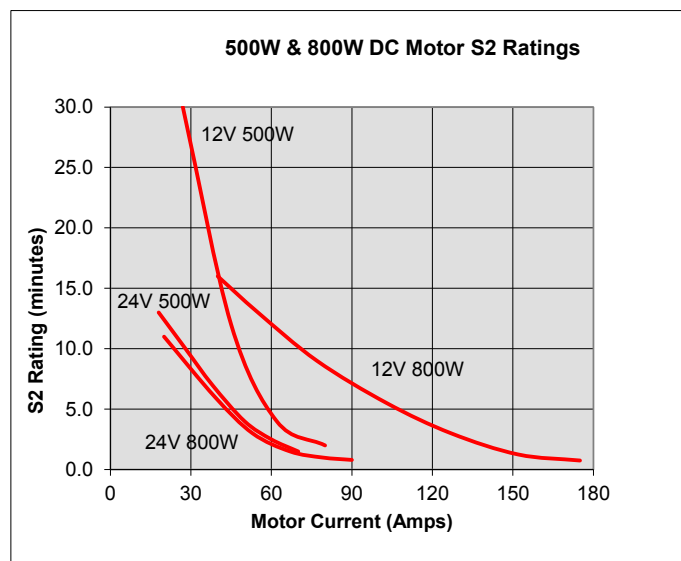
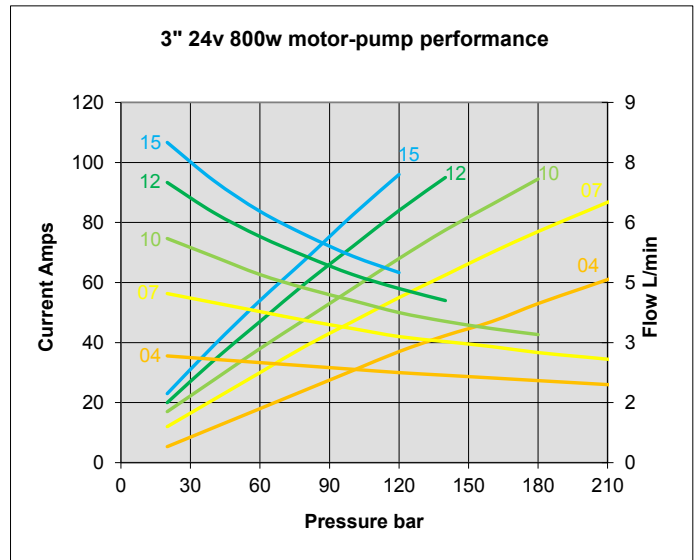
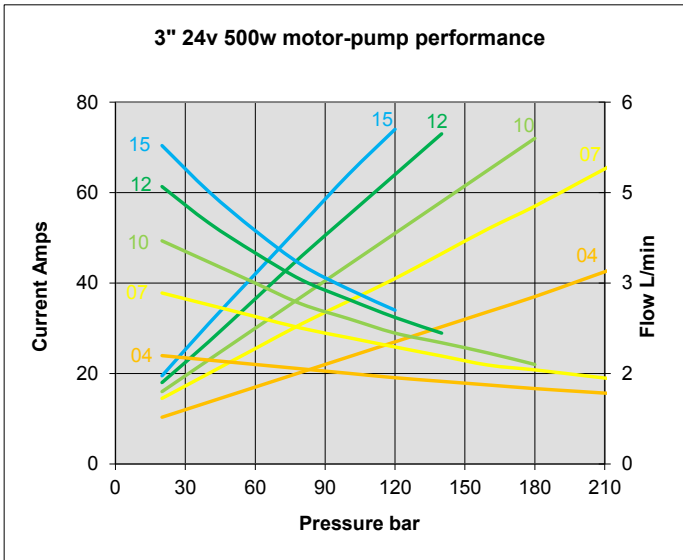
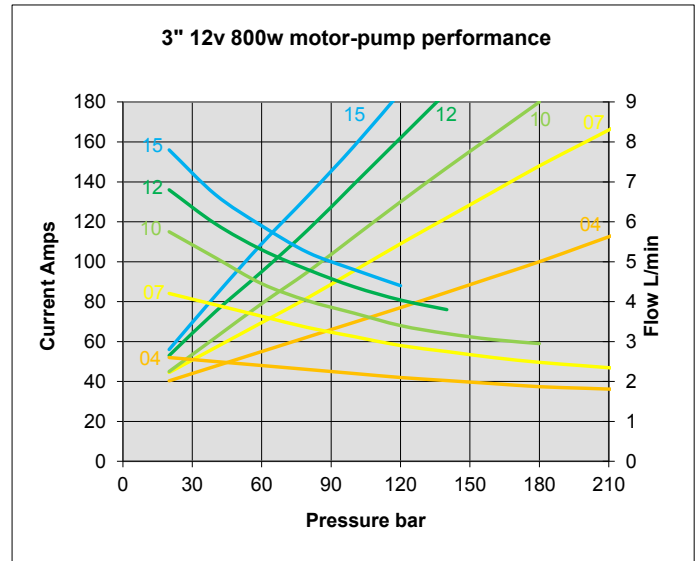
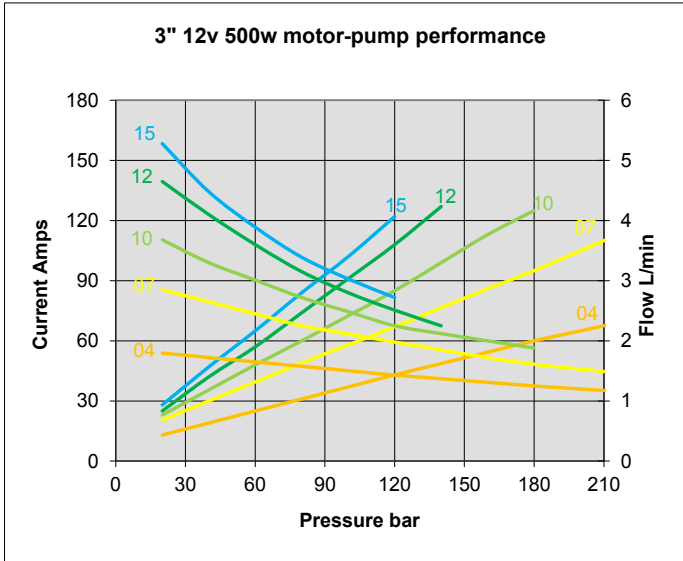
Nominal motor-pump performance at constant voltage and at nominal 20-25° C with ISO 3448/VG22



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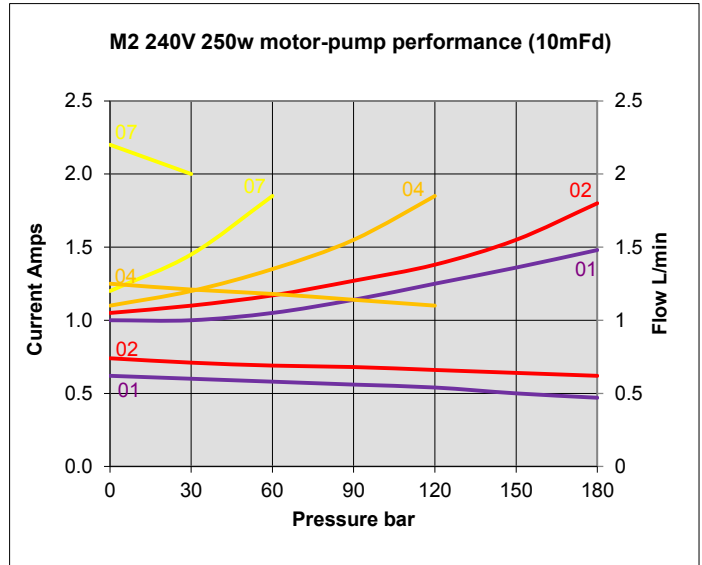
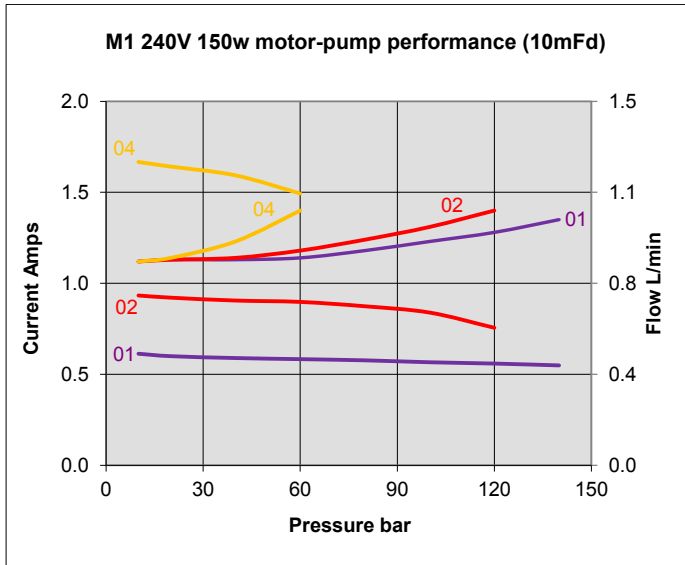
S2—Short time Duty— Maximum run time at load, followed by a time of rest to re-establish ambient temperature.

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



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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