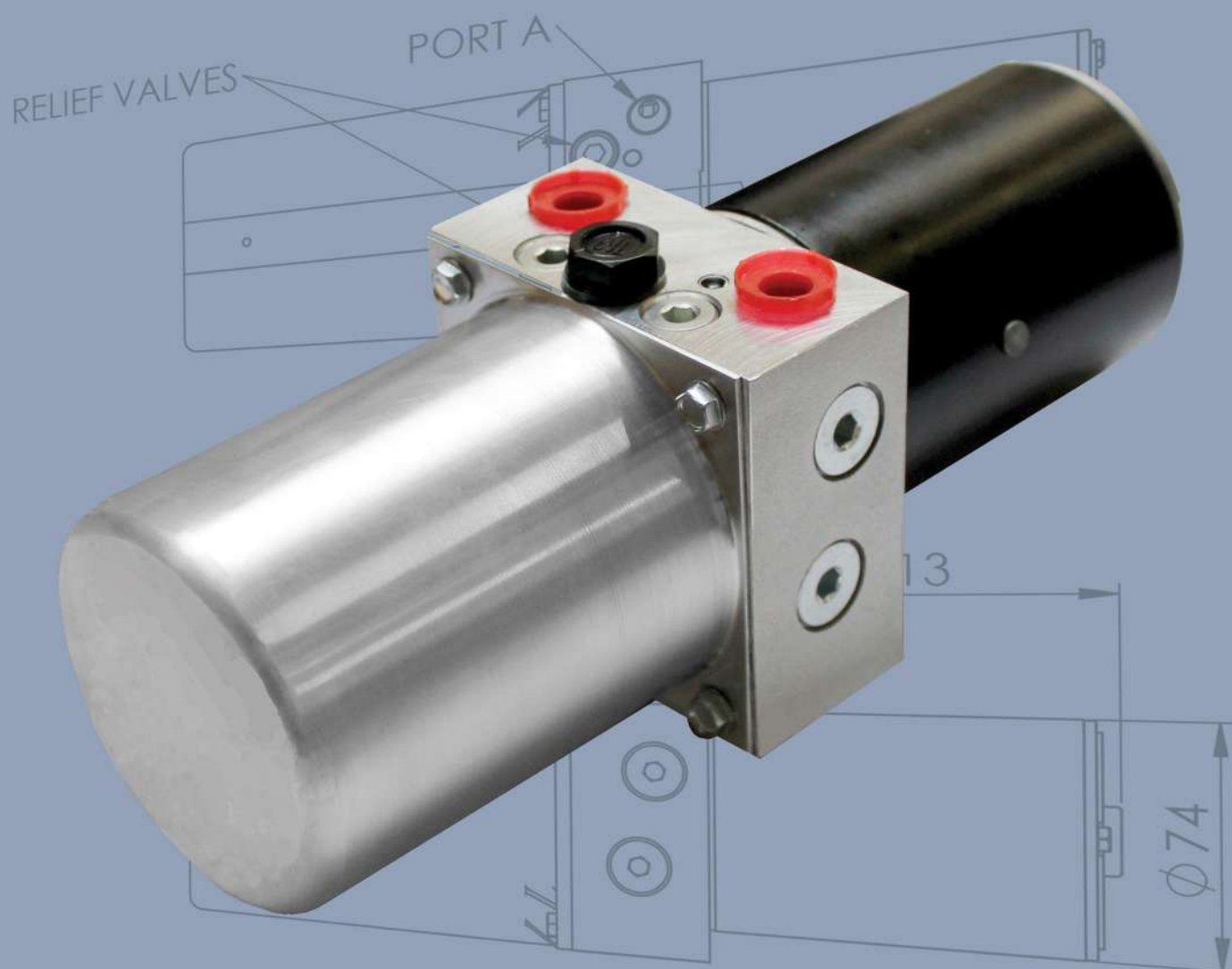




HPR Micro Reversible Powerpack

HYDRA
PRODUCTS



Micro Hydraulic Power Pack

The Hydraproducts Micro Hydraulic Power Pack is a compact unit, ideal for environments where space is a major issue.



- Single or Double acting
- 240V and 415V AC motors
- 12V and 24VDC motors to 800Watt
- Pressures to 200bar
- High pressure gear pumps to 1.5cc/rev
- Reservoirs to 1.5 Litres

Mini Hydraulic Power Pack

Hydraproducts AC & DC powered Mini Power Packs are suitable for any Mobile, Industrial or Marine application.



- AC and DC specifications available
- DC motors from 500W to 3kW, in 12V and 24VDC
- Pressures to 200bar
- AC motors from 0.25 to 5.5kW

Standard Hydraulic Power Unit

The Standard Hydraulic Power Unit uses a standard range of modular components for easy specification, assembly and maintenance in the most demanding industrial applications.



- Motors up to 30kW
- Flow rates to 100 Litres/minute
- Pressure capability to 250bar
- Tank capacities to 180Litres

NEW Components Division



- Valves
- Bellhousings & Couplings
- Accumulators
- Manifold blocks
- Coolers
- Tanks
- Cylinders
- Filters
- Pumps



HPR Micro Pack

The HPR Reversible Hydraulic Power Pack offers the flexibility to operate double acting hydraulic functions within a very compact space and without the need for further control valves. With 150W to 800W DC Motors and 0.15 to 0.55kW AC Motors the gear pump can produce pressures up to 200bar. Dual Pilot Check Valves give leak free control for cylinders. Dual Relief valves give control in both directions whilst dual pilot suction check valves prevent induced pressures and noise when excess full bore cylinder flow returns to the tank.

Micro Pack applications include:

- Wheelchair Lifts
- Brakes
- Bath Lifts
- Clamping System

Hydraproducts have a proven record of performance.

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

HPR Micro Pack

Die HPR reversierbare Hydraulik Aggregate bieten sich an, doppelt wirkende Funktionen in engen Raum an realisieren. Die Notwendigkeit weiter Ventile entfällt. Mit 150W bis 800W DC-Motoren und 0,15 bis 0,37 Drehstrommotoren. Können die zahnradpumpen Drück bis zu 200bar erzeugen. Doppelt Entsperrbare Rückschlagventile gewährleisten dass die last beidseitig gehalten wird.

Mit zwei Druckbegrenzungsventile wird der systemdruck eingestellt.

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

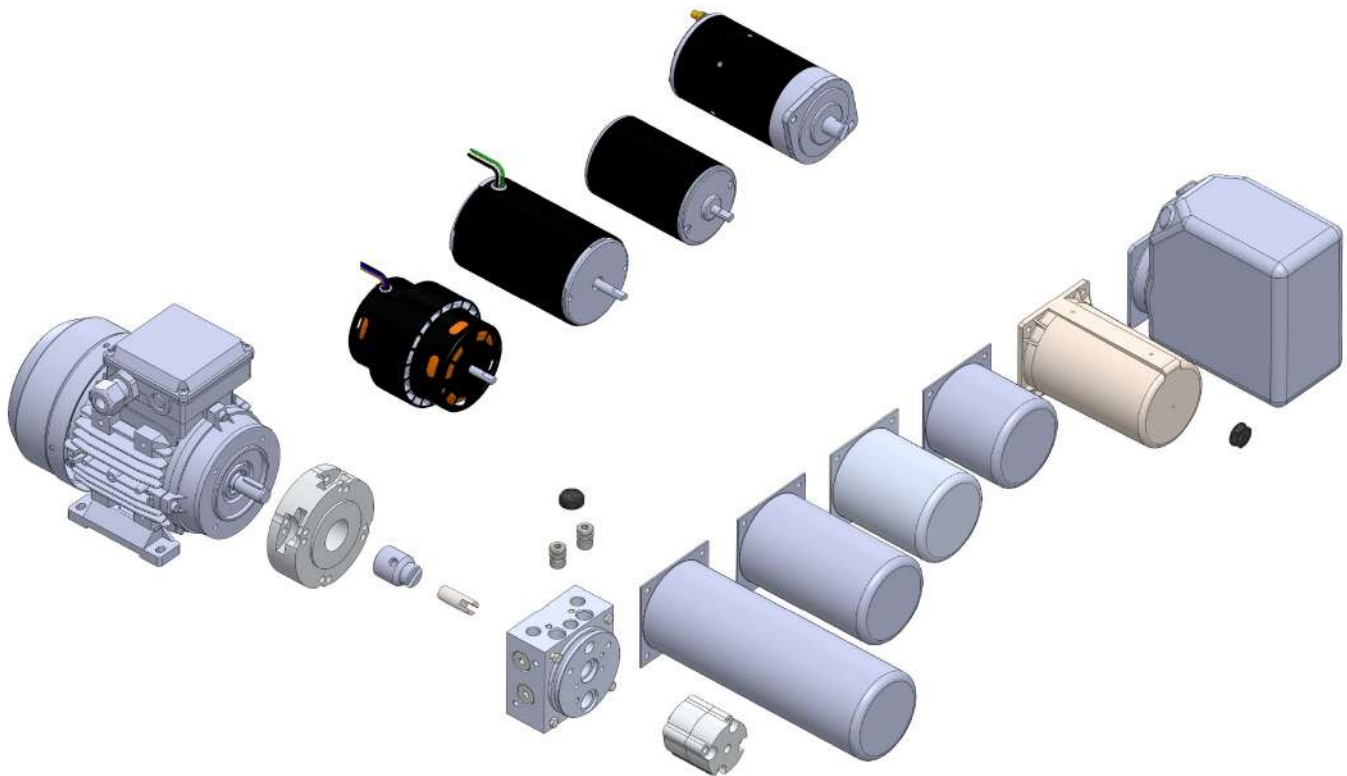
HPR Micro Pack

La HPR Reversible Unidad de potencia hidráulica ofrece la flexibilidad de operar de doble efecto funciones hidráulicas dentro de un espacio muy reducido y sin la necesidad de válvulas de control adicionales. 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. Dos válvulas pilotadas dar fugas control libre de cilindros. Dos válvulas de alivio dar el control en ambas direcciones, mientras que las válvulas de retención de doble piloto de succión evitar presiones inducidas y el ruido cuando el exceso de flujo completo vuelve ánima de cilindro al depósito.

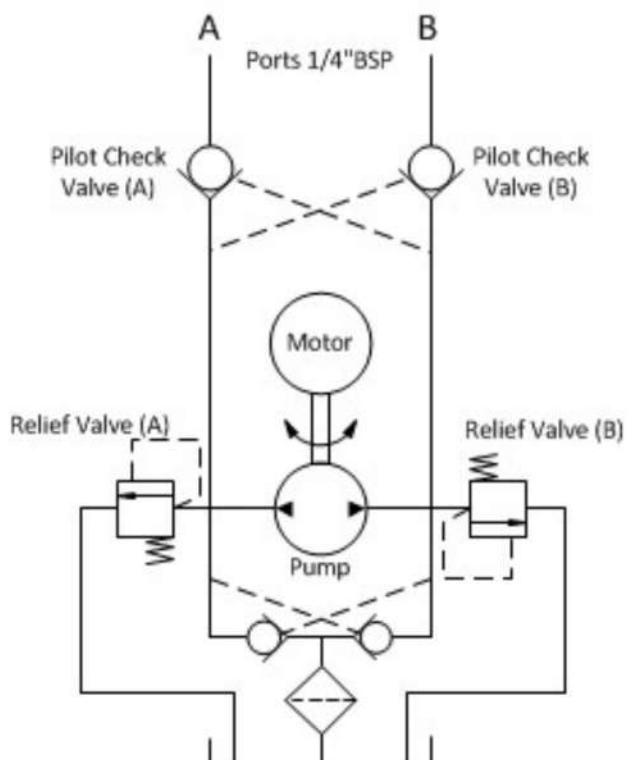
Aplicaciones incluyen:

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

Hydraproducts tienen un historial comprobado de desempeño.



PRNS Circuit shown here— refer to page 8 for other circuits.



Specifications

Pump

Type	Reversible gear pump
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

Reversible circuits for double acting actuators.

Reservoirs

Plastic	0.5 and 1.5Litre
Aluminium	0.1 to 1Litre

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

HPR Micro Reversible Hydraulic Power pack range

HPR

DC Motor Range

AC Motor

Motor connection flanges and drive couplings

11

Gear Pumps

04

Mounting orientation

H

Hydraulic circuits

PRNS

Filler Position

Tank

S01

HPR 1 1 04 H P R N S 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		
01V		0.16cc/rev
02V		0.24
02C		
04V		0.45
05C		0.50
07V		0.75
07C		
10V		0.98
15V		1.48

CIRCUIT				
U				Motor Spools
P				Pilot Check Valve
	R	S		Relief Valve
N		M		Manual Release
			S	Standard Body
N	N	N	N	Not Fitted

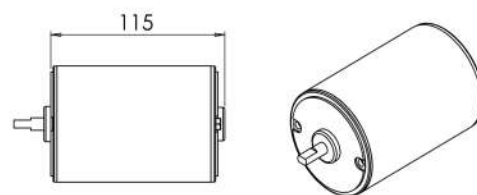
MOUNTING	
H	Horizontal
V	Vertical

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

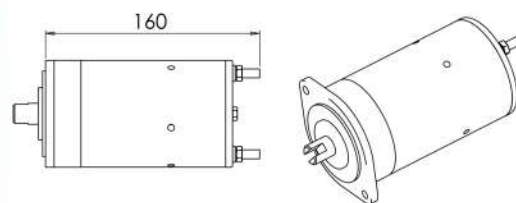
HP4129 12V 150W	11
HP4028 12V 250W	12
HP4135 24V 150W	21
HP4029 24V 250W	22



for performance data see page 12

DC Motors— 500W and 800W IP44

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

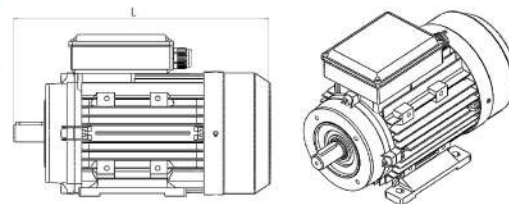


for performance data see page 13

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

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

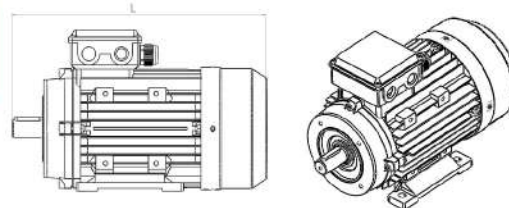
Permanent capacitor motors are preferred with a 0.5-0.9 FLT starting torque.



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

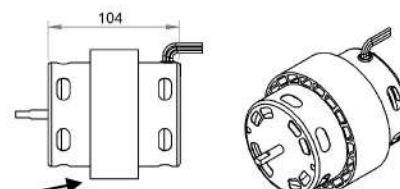
Dual European voltages, 230/400. Dual 50/60Hz rated. S1 Continuous Duty S1. Thermistors PTC.



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

AF1H6912K 240V 150W	M1
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for performance data see page 14



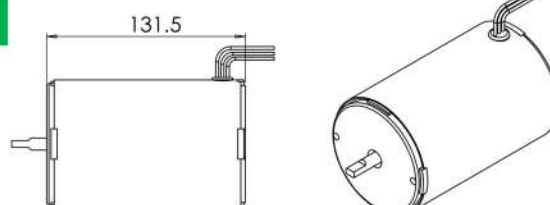
Heat sink is optional

AC Motor - 250Watt 240V 50Hz S2 duty

JF1L7008K 240V 250W	M2
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for performance data see page 14

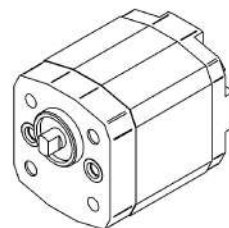
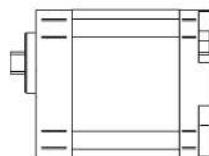
IP44



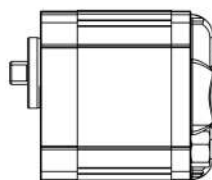
HYDRAULIC PUMPS

Gear Pump group 0

Size cm ³ /rev	P max.	Type
0.25	180	02C
0.50	180	05C
0.75	180	07C



Size cm ³ /rev	P max.	Type
0.16	210	01V
0.24	210	02V
0.45	210	04V
0.56	210	05V
0.75	210	07V
0.98	180	10V
1.48	160	15V



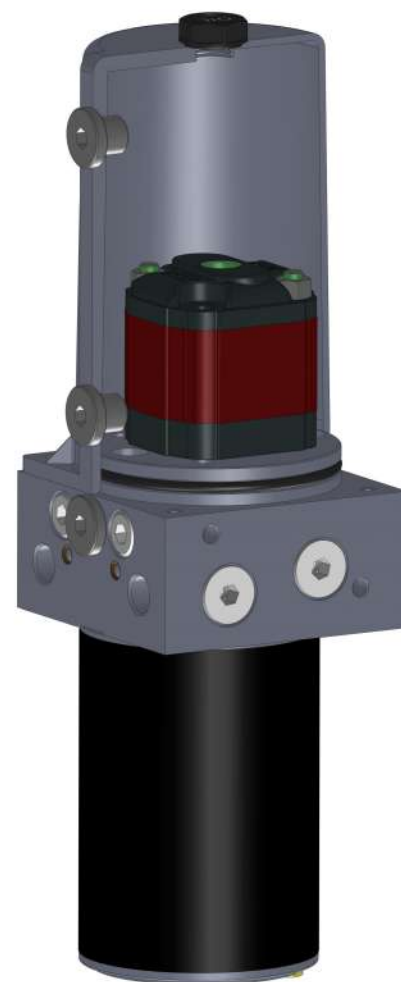
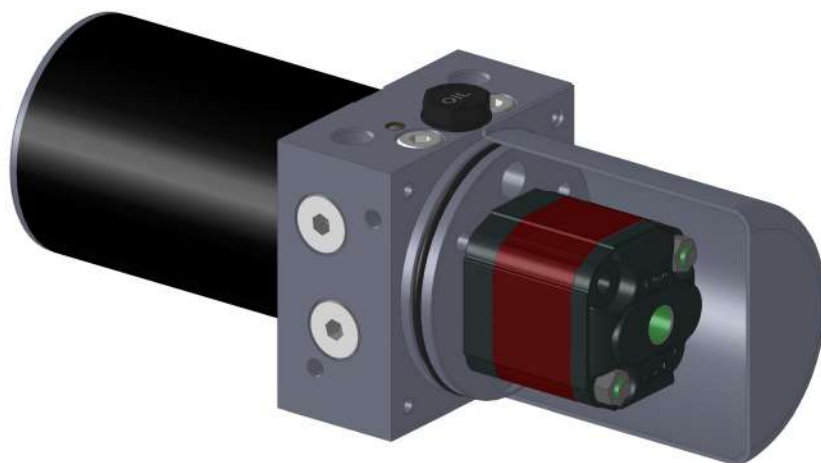
04

Group 0 pumps are available in two types; 'C' is the standard option. Type 'V' give higher pressures and larger displacements.

MOUNTING

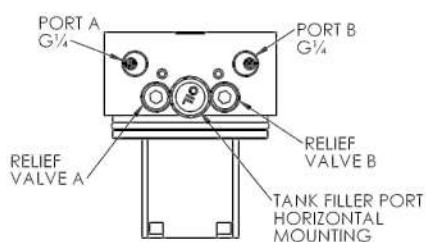
Orientation

Position	Type
Horizontal	H
Vertical—Tank uppermost	V

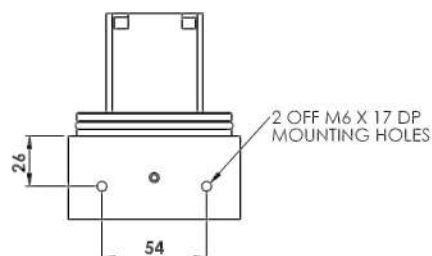
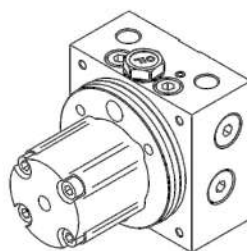
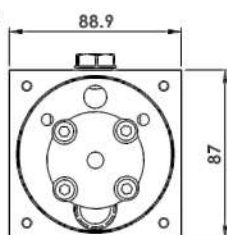
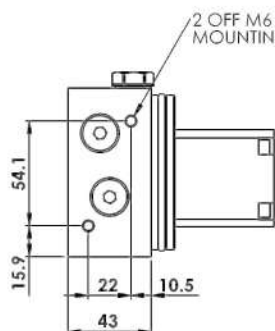


CENTRAL MANIFOLD

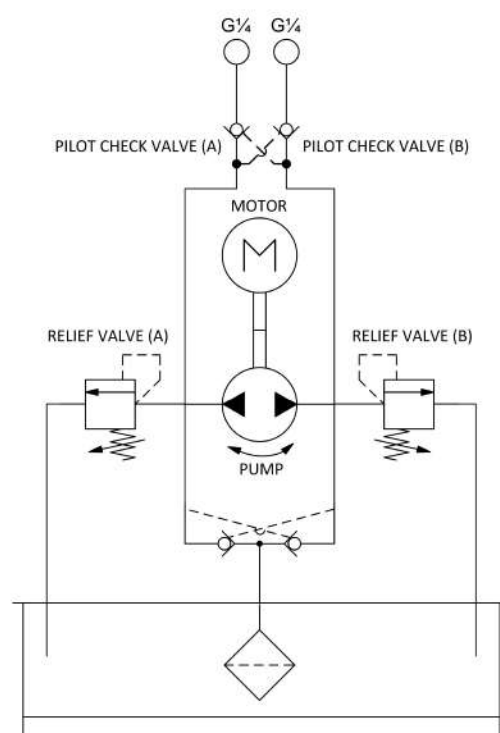
Manifold	Hydraulic circuit			
Pilot Check Valves A & B	P			
Relief Valves		R		
No Manual Override			N	
Standard Manifold				S



PRNS—Standard
Manifold



PRNS—Circuit Diagram

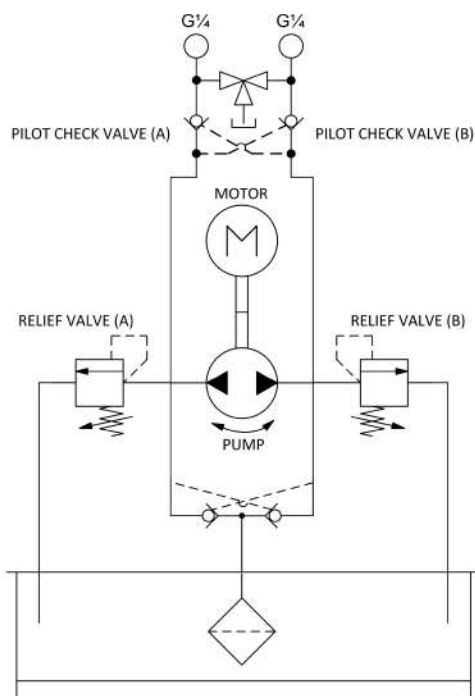
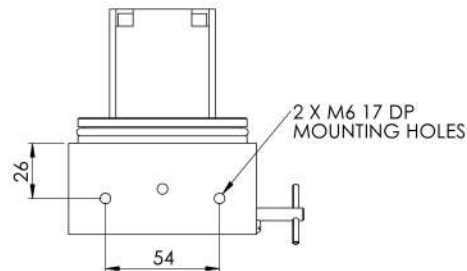
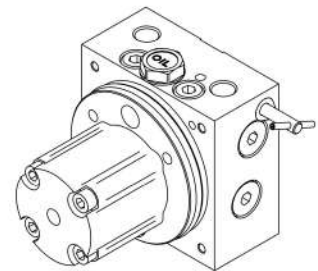
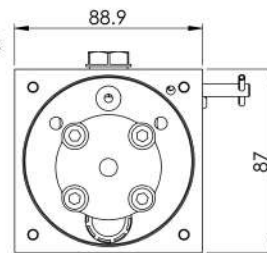
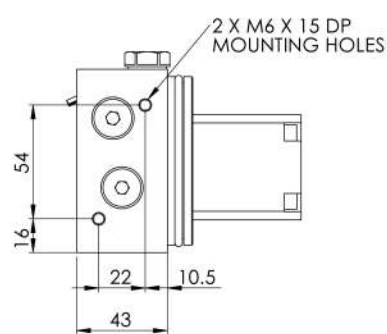
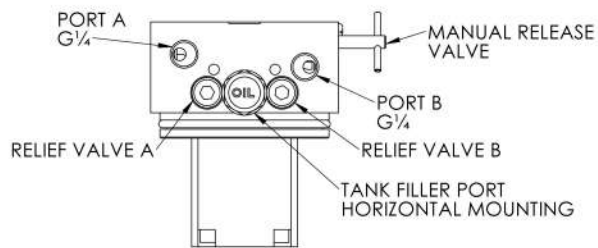


PRNS

CENTRAL MANIFOLD

Manifold	Hydraulic circuit			
Pilot Check Valves A & B	P			
Relief Valves		R		
Manual Override			M	
Standard Manifold				S

PRMS—Standard
Manifold

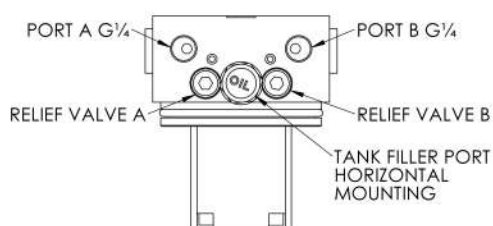


PRMS—Circuit Diagram

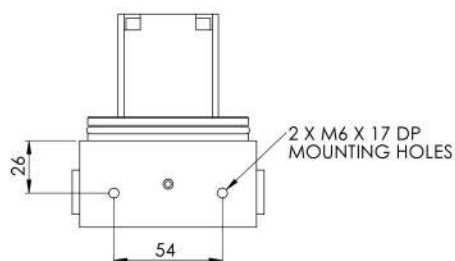
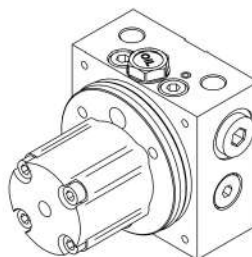
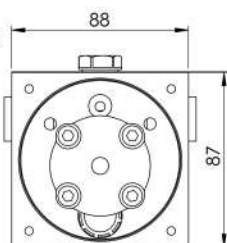
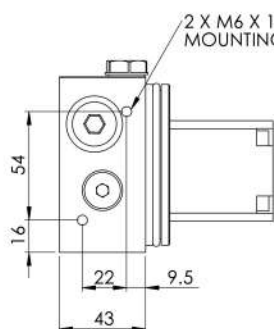
PRMS

CENTRAL MANIFOLD

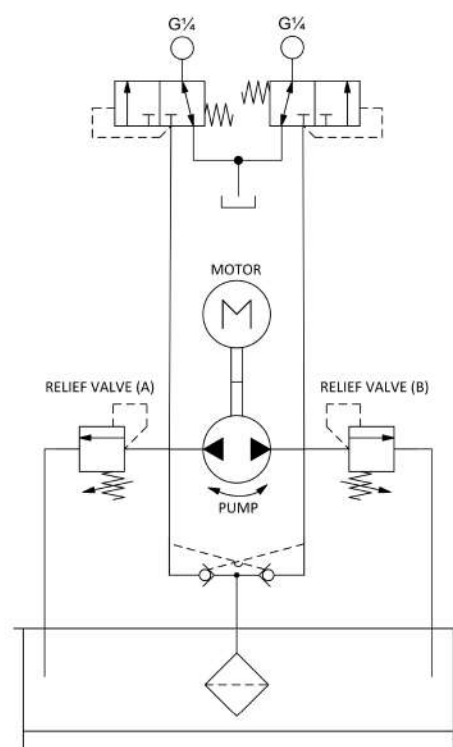
Manifold	Hydraulic circuit			
Motor Spool	U			
Relief Valves		R		
No Manual Override			N	
Standard Manifold				S



URNS—Standard
Manifold



URNS—Circuit Diagram



PRNS

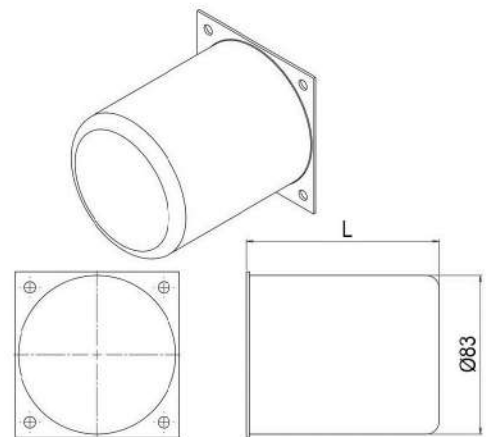
FILLER/BREATHER POSITIONS

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

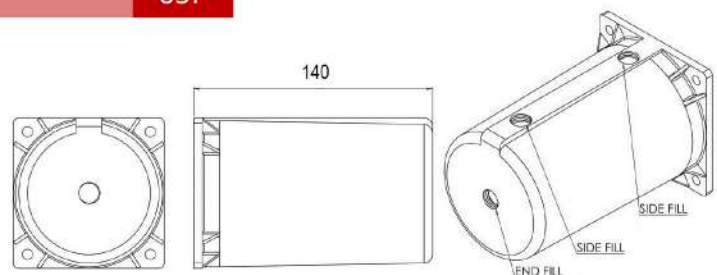
Cylindrical

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

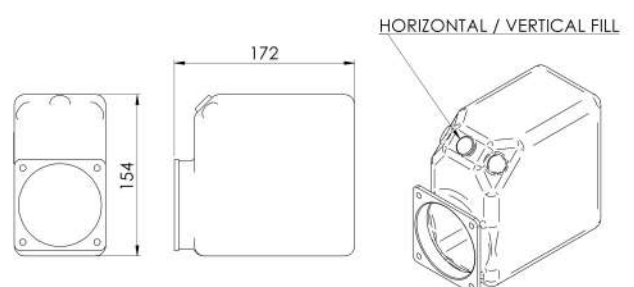


PLASTIC OIL TANK

0.5 Litre Plastic 05P



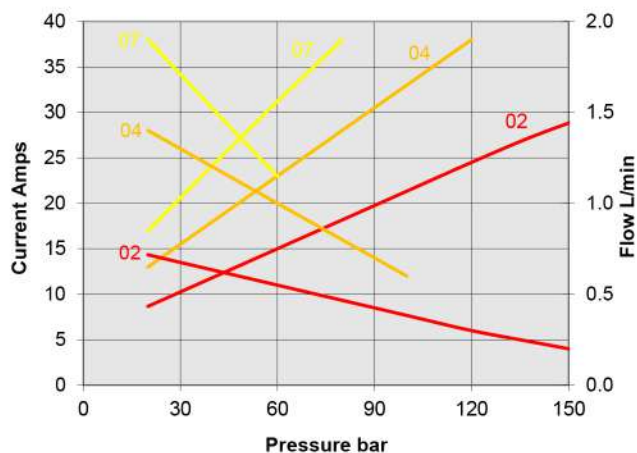
1.5 Litre Plastic 15P



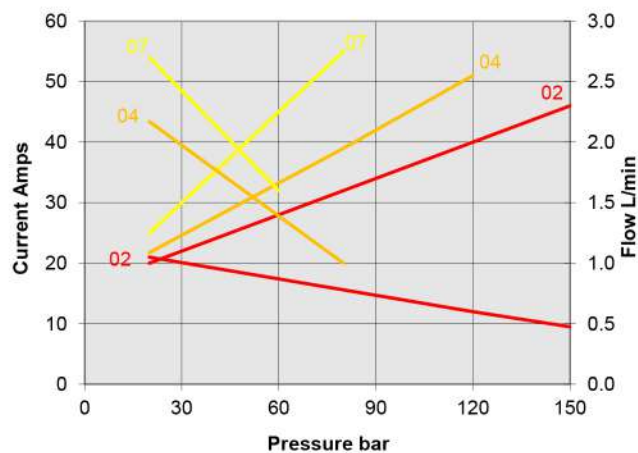
S01

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

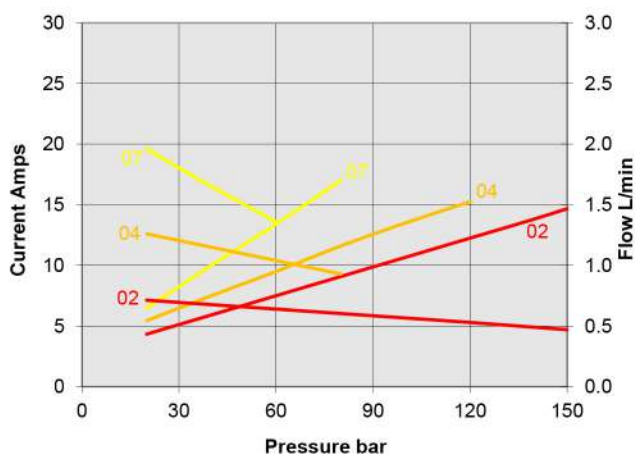
12v 150w motor-pump performance



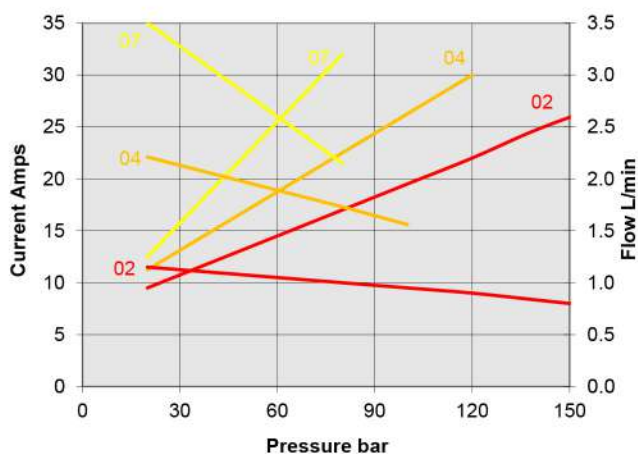
12v 250w motor-pump performance



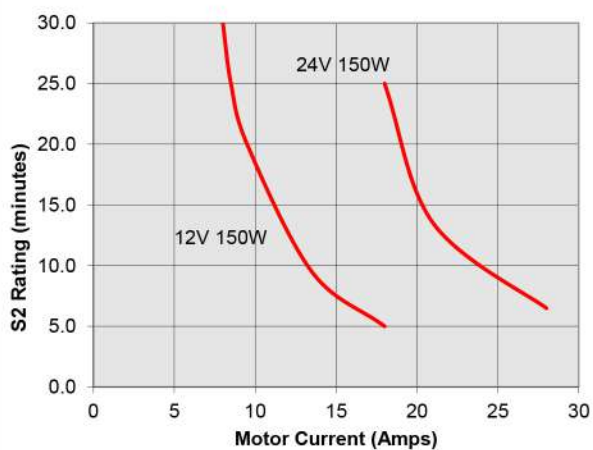
24v 150w motor-pump performance



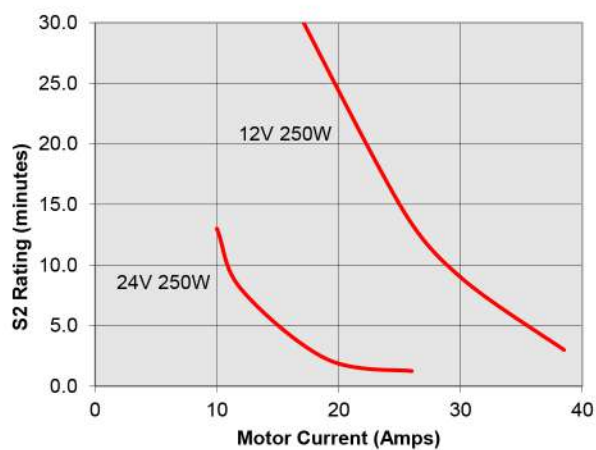
24v 250w motor-pump performance



150W DC Motor S2 Ratings



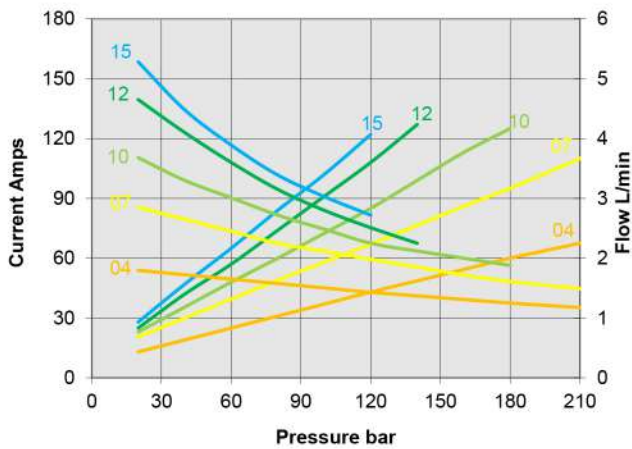
250W DC Motor S2 Ratings



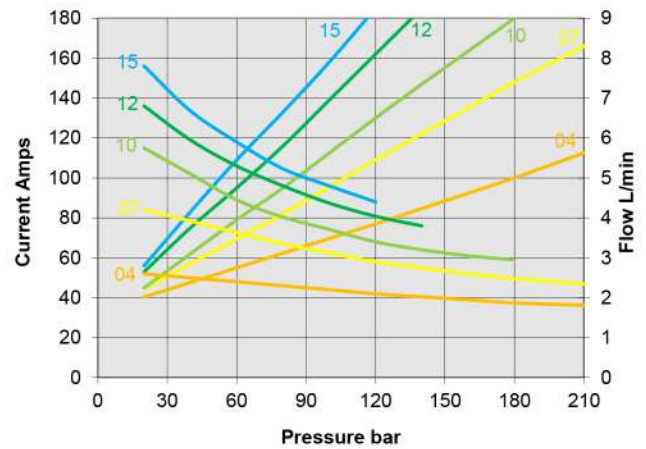
S2—Short time Duty— Maximum run time at load, followed by a time of rest to re-establish ambient temperature.

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

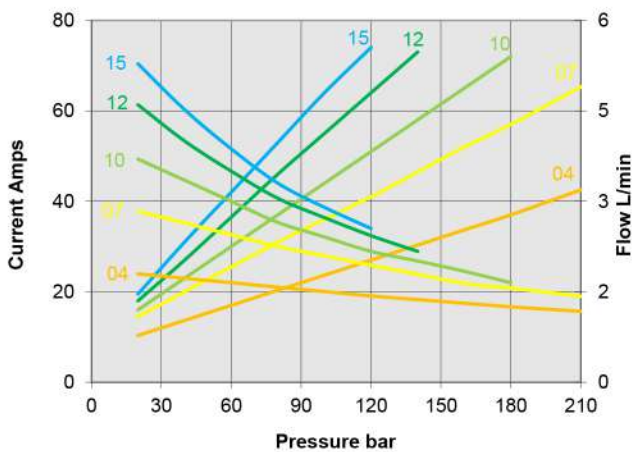
3" 12v 500w motor-pump performance



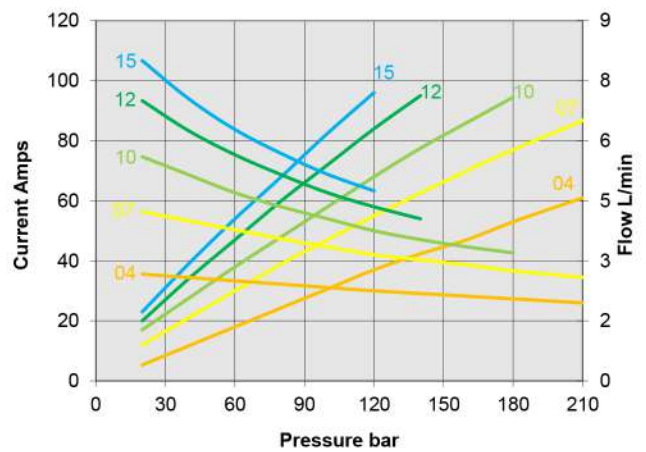
3" 12v 800w motor-pump performance



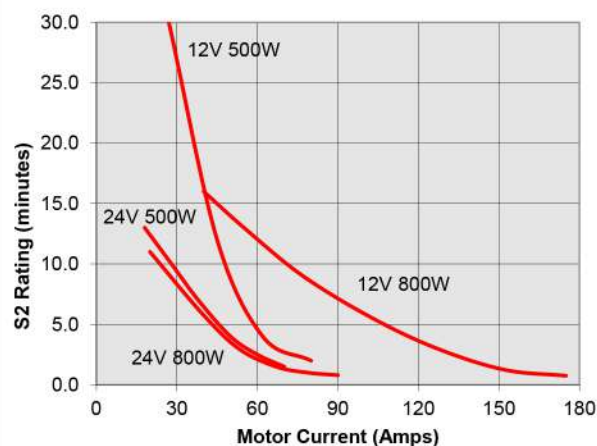
3" 24v 500w motor-pump performance



3" 24v 800w motor-pump performance

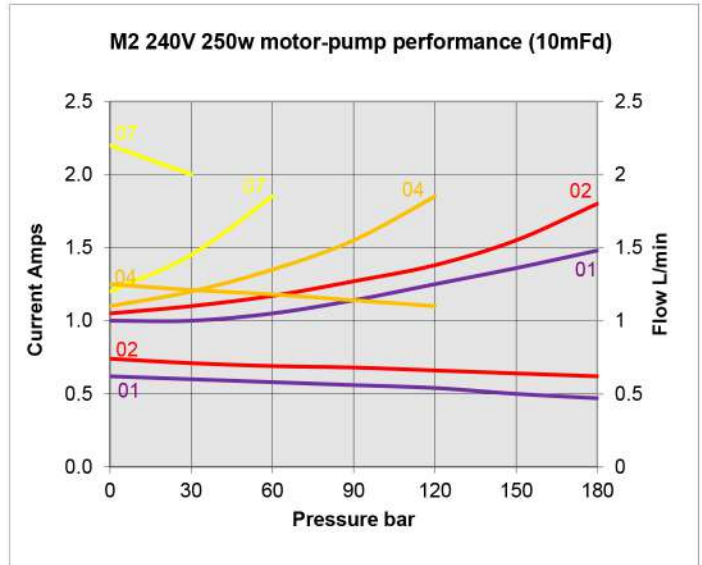
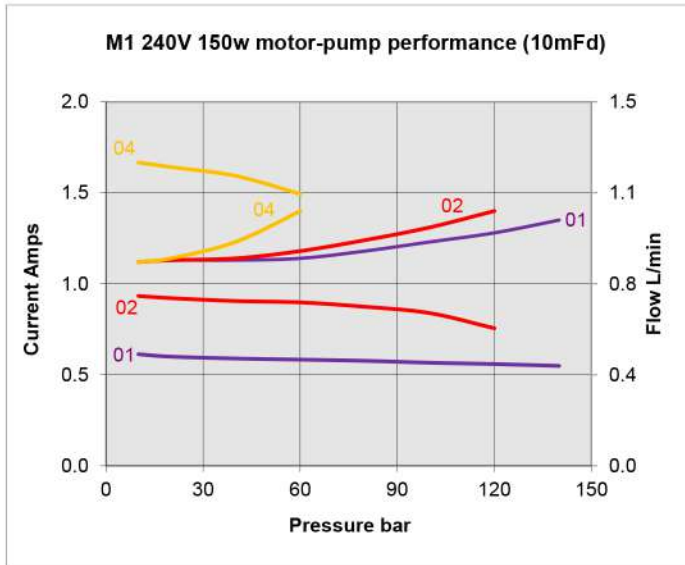


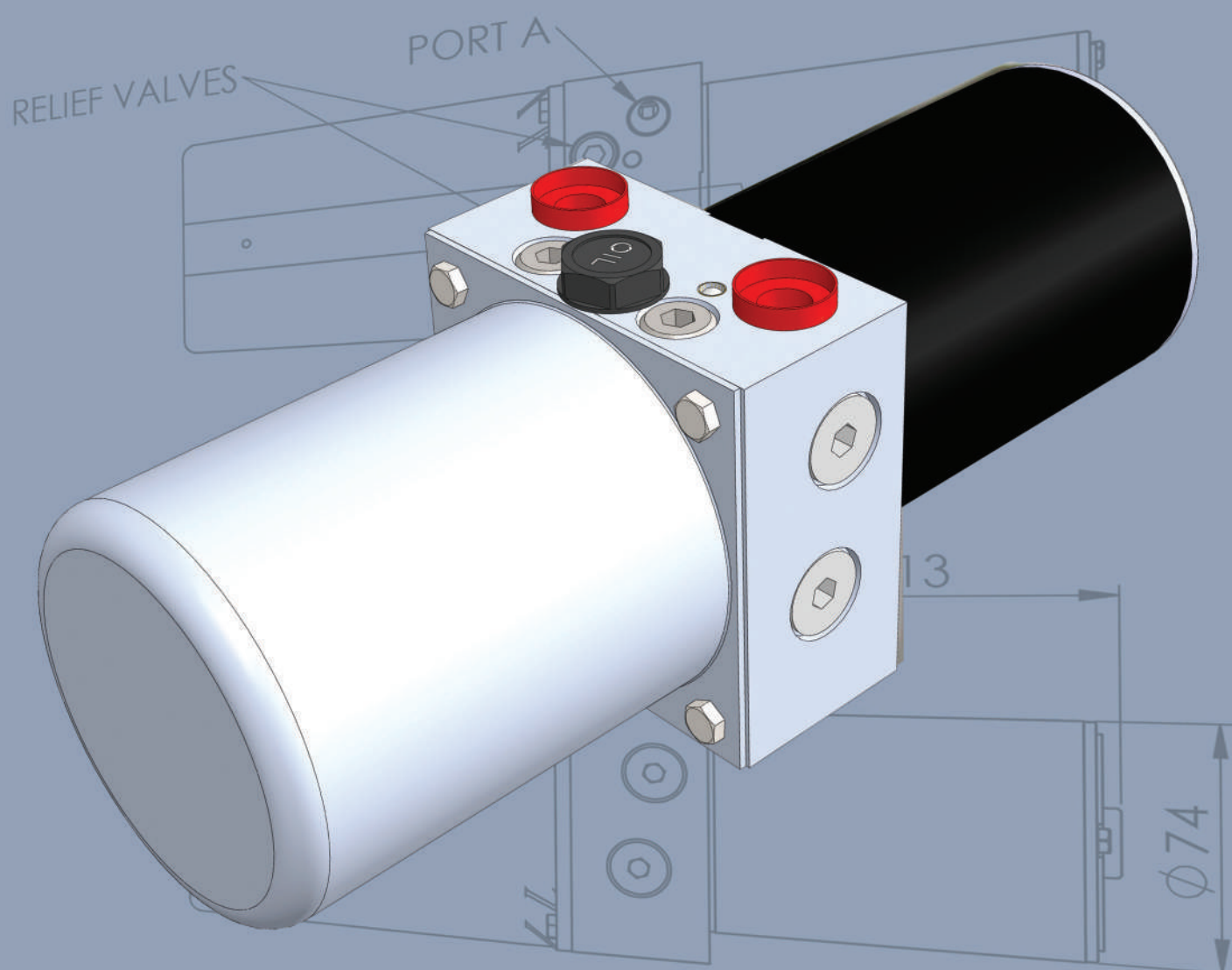
500W & 800W DC Motor S2 Ratings



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





Hydraproducts objective is to continue to design and manufacture Hydraulic power packs that enable OEM customers to remain competitive in a world market place. New technologies, materials and design engineering give our engineers the means to produce world class hydraulic power units. Hydraulic power packs are for use in Industrial, Mobile, Materials Handling and Mobility and an ever expanding range of applications where power required is below 75kW.

Our company has established itself as an innovative manufacturer of the Micro Hydraulic power pack with OEM customers throughout the UK and with Distributors Worldwide.



**HYDRA
PRODUCTS**

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