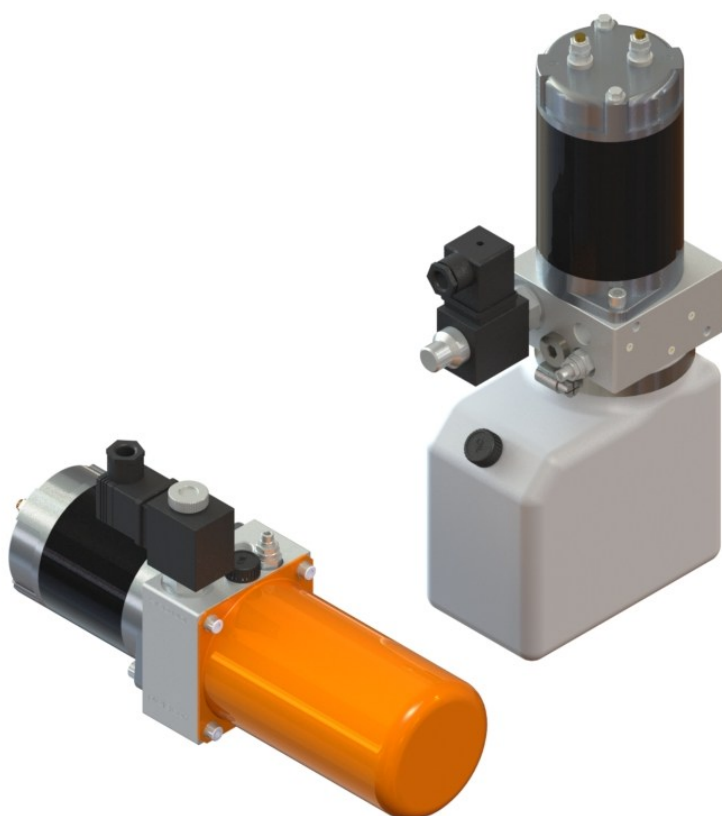


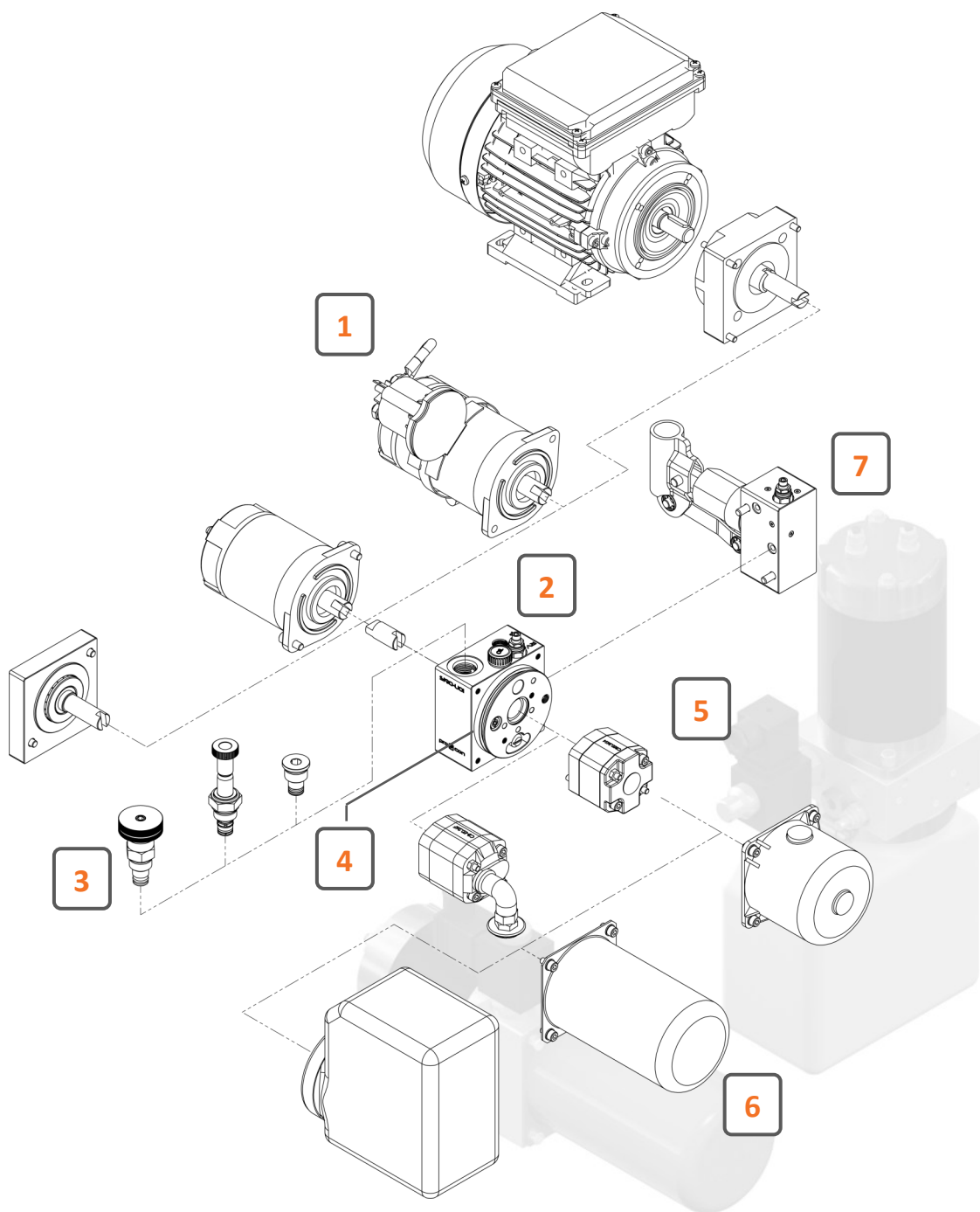
Si90-U

Uni-Directional
Micro Power Pack



Si90-U

Position	1	2	3	4	5	6	7
Description	Motor / Starter Relay	Centre Manifold	Valve / Coil	Flow Control	Pump	Orientation , Tank and Filler	Additional Modules
<i>Example Code :</i>							
U	A15-S	UH	NC-A	10	38	H –B05	HP
Page No.	2-3	4	5	6	7	8	9



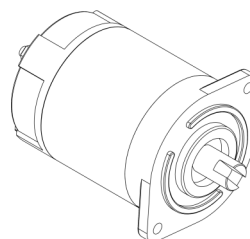
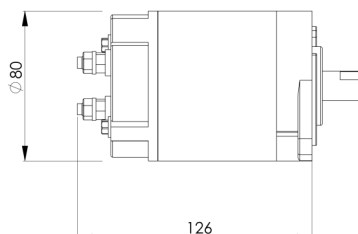
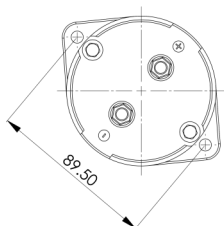
pro-e-con

U	A15-S	UH	CM-A	10	38	H –B05	HP
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Motor / Starter Relay

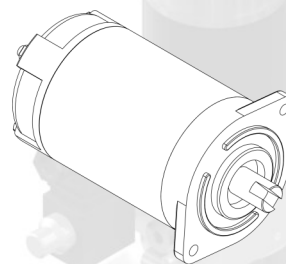
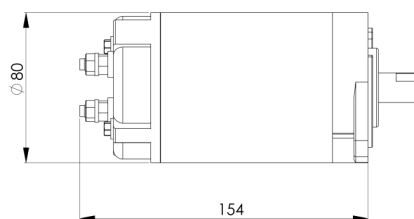
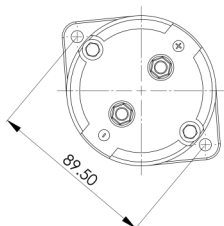
Voltage	Power (W)	Speed (RPM)	Type	Code	With Start Switch
12 VDC	150	2400	3" (80mm)	A15-N	A15-S
24 VDC	150	3200	3" (80mm)	B15-N	B15-S

150W Motor Dimensions

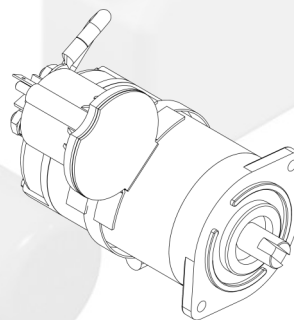
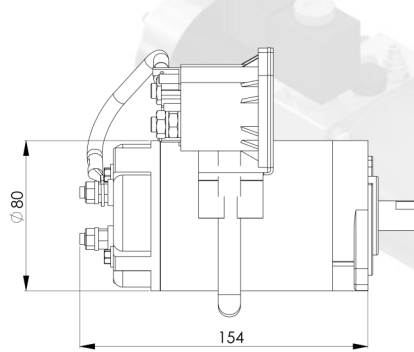
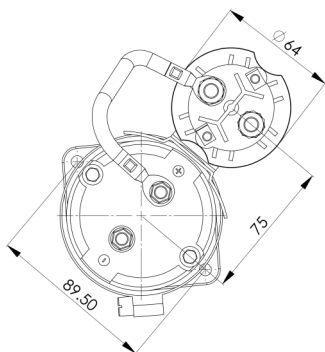


Voltage	Power (W)	Speed (RPM)	Type	Code	With Start Switch
12 VDC	500	3100	3" (80mm)	A50-N	A50-S
12 VDC	800	4100	3" (80mm)	A80-N	A80-S
24 VDC	500	3400	3" (80mm)	B50-N	B50-S
24 VDC	800	4100	3" (80mm)	B80-N	B80-S

500W & 800W Motor Dimensions



500W & 800W Motor Dimensions With Start Relay

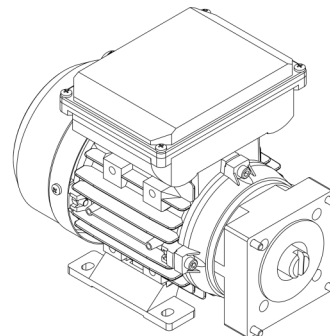
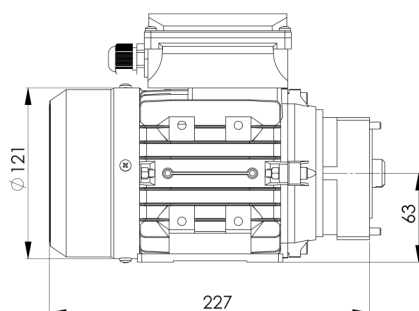
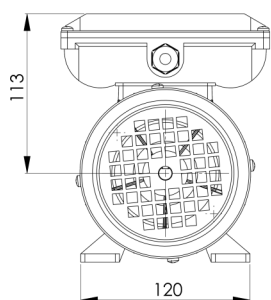


U	A15-S	UH	CM-A	10	38	H -B05	HP
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Motor / Starter Relay

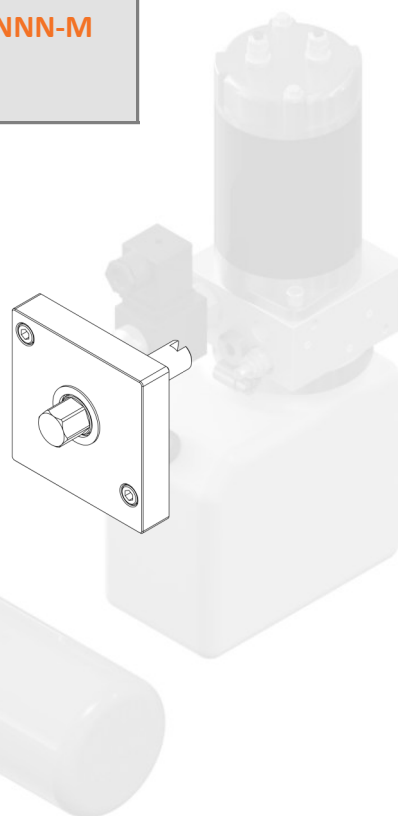
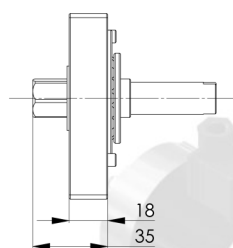
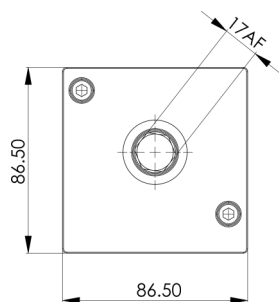
Voltage	Power (W)	Speed (RPM)	Type	Code
240 VAC	250	2800	63FR	C25-N

63FR Motor & Coupling Dimensions



Description	Code
Drill Driven System. <i>Please contact us to determine if your application is suitable for use with the drill driven system. This is dependent on pressure and flow required and what power drill is specified to be used.</i>	NNN-M

Drill Driven Coupling Dimensions

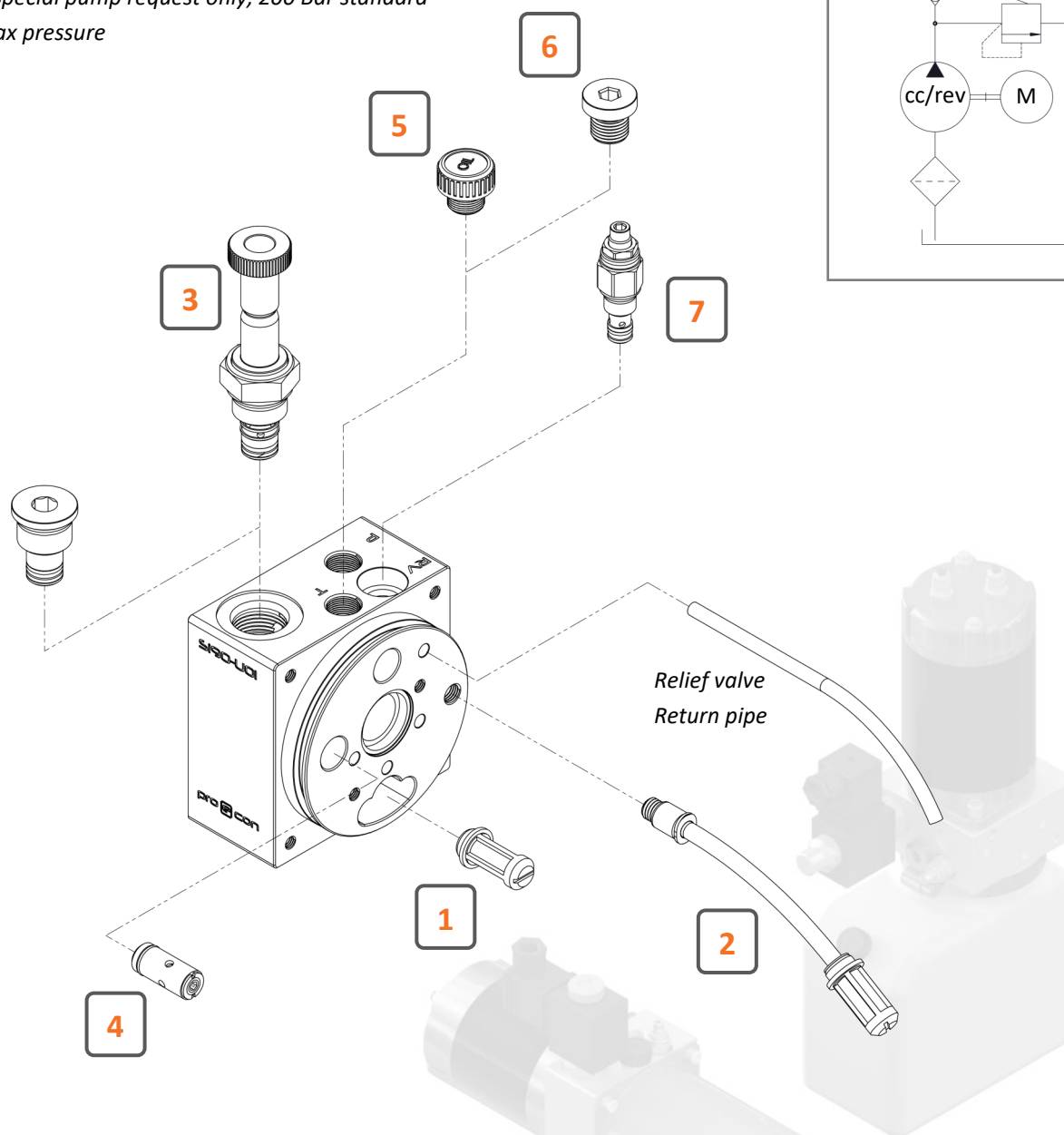
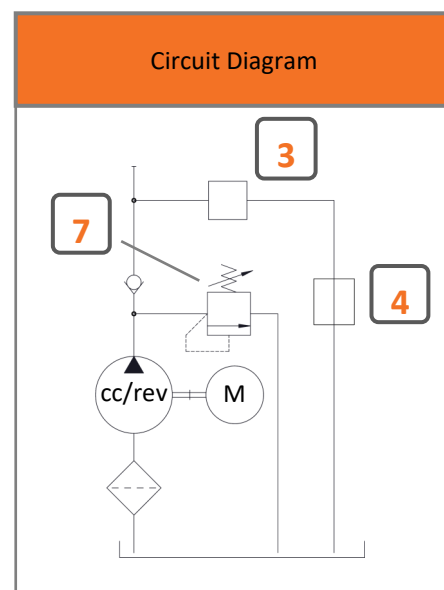


U	A15-S	UH	CM-A	10	38	H -B05	HP
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Centre Manifold

Relief valve adjustment range (BAR)	Code
7-210	UL
100-250*	UH

* Special pump request only, 200 Bar standard
Max pressure



Position	1	2	3	4	5	6	7
Description	Suction Filter for Reversible Pump	Suction Filter for HP Module	Valve / Coil	Flow Control	Filler Breather for blank (B) tanks	Blanking plug for side (S) & End fill tanks	Relief Valve

U	A15-S	UH	CM-A	10	38	H-B05	HP
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Valve / Coil

Description	Symbol	Dimension	Code
N.C Normally Closed pilot operated solenoid valve			C
N.C M/O Normally Closed pilot operated solenoid valve with manual override			CM
N.O M/O Normally Open pilot operated solenoid valve with manual override			OM
DLV N.C M/O Normally Closed Direct operated solenoid valve with manual override			D

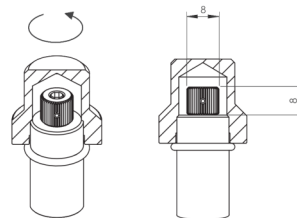
Valves shown with Din type coil connector

Description	Symbol	Dimension	Code
Cavity Plug			N
1/4" BSP Auxiliary return port			T
1/4" BSP Auxiliary pressure port			P
Manually Operated Needle Valve			M

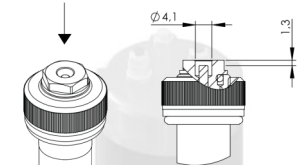
Coil Voltage	Coil Connector	Code
12 VDC	Din	A
24 VDC	Din	B
12 VDC	Flylead (300mm)	E
24 VDC	Flylead (300mm)	F
None	None	N

Manual Overrides

Twist Type **CM**

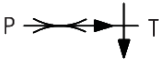


Push Type **OM & D**

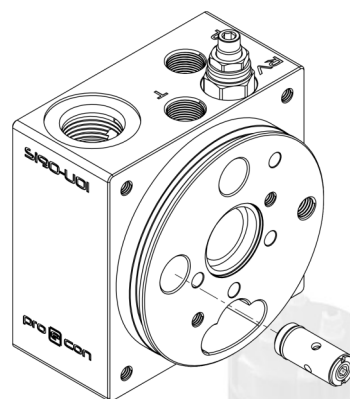
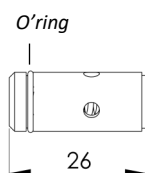
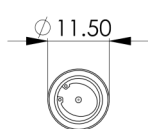


U	A15-S	UH	CM-A	10	38	H-B05	HP
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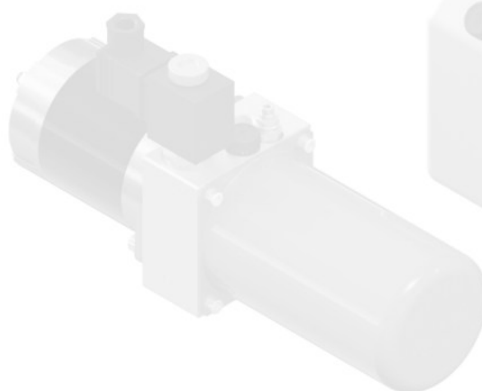
Flow Control

Description	Symbol	Flow rate l/min	Code
Pressure compensated flow control cartridge insert. Function: To maintain a consistent flow regardless of acting load. Fitted in the tank return line of the solenoid valve		0.8	8
		1.0	10
		1.2	12
		1.5	15
		2.0	20
		3.0	30
		4.0	40
		None	N

Dimensions



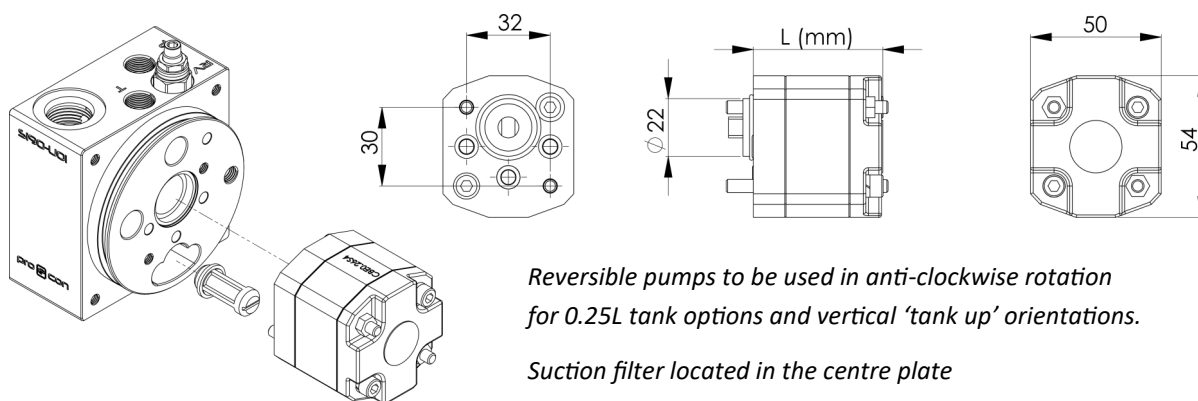
Flow control is a light push fit retained in place by the hydraulic pump.



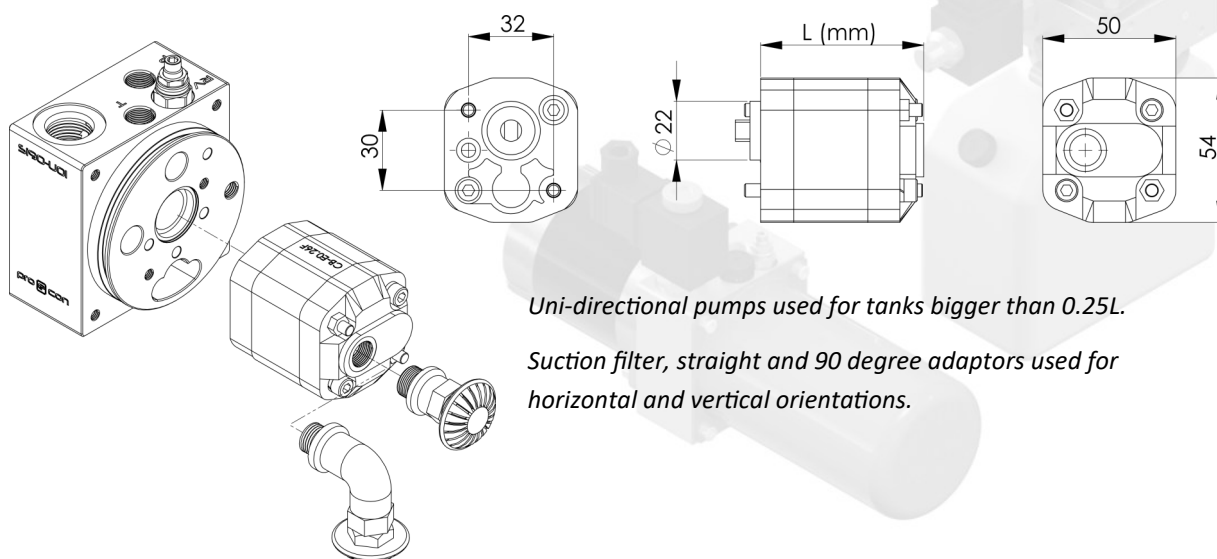
U	A15-S	UH	CM-A	10	38	H –B05	HP
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Pump

Displacement (cc/rev)	P1 Continuous Pressure (Bar)	P2 Max Pressure (Bar)	L (mm)	Code
0.25	180	200	47	25
0.5	180	200	55	50
0.75	180	200	57	75



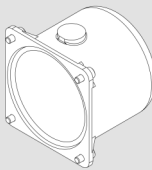
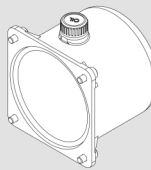
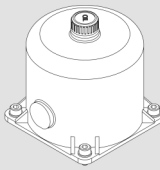
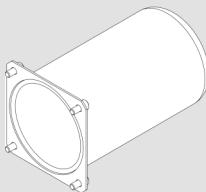
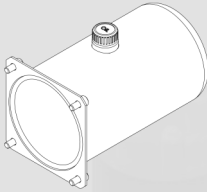
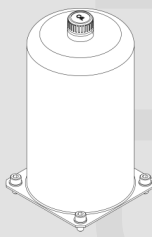
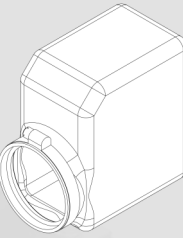
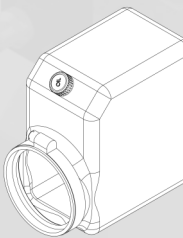
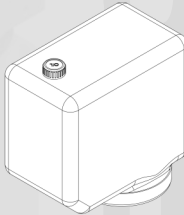
Displacement (cc/rev)	P1 Continuous Pressure (Bar)	P2 Max Pressure (Bar)	L (mm)	Code
0.25	180	200	61.5	25
0.38	180	200	62.5	38
0.5	180	200	63	50
0.75	180	200	65.5	75



U	A15-S	UH	CM-A	10	38	H -B05	HP
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Orientation, Tank & Filler

Orientation	Code
Horizontal	H
Vertical	V

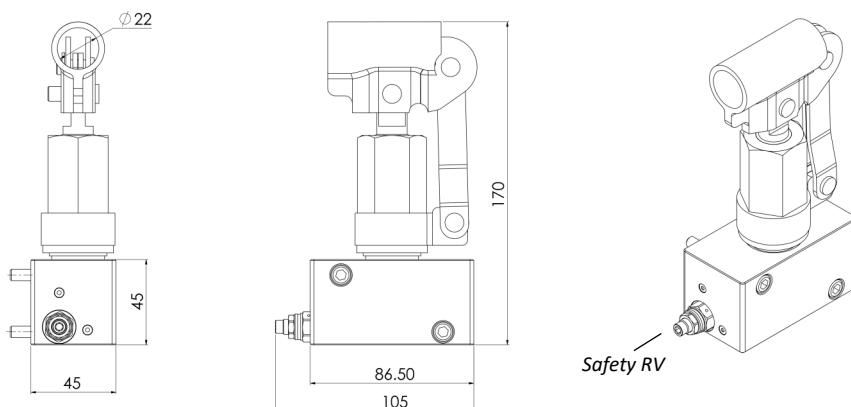
Tank Volume (Litres)	Material	Mounting	Code		
			No Fill (Blank)	Side Fill	End Fill
0.2	Hostaform C (Plastic)	M5 Bolts	B02 	S02  <i>Horizontal Only</i>	E02  <i>Vertical Tank up</i>
0.5	Aluminium	M5 Bolts	B05 	S05  <i>Horizontal Only</i>	E05  <i>Vertical Tank up</i>
1.2	Polyethylene (Plastic)	Jubilee Clip	B12 	S12  <i>Horizontal & Vertical</i>	E12  <i>Vertical Tank up</i>

U	A15-S	UH	CM-A	10	38	H –B05	HP
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Additional Modules

Description	Max HP Pressure (Bar)	Max Safety RV Pressure (Bar)	Displacement	Code
4cc Hand Pump module with safety RV	200	250 <i>Set 25% higher than centre plate RV</i>	4.0cc per stroke	HP

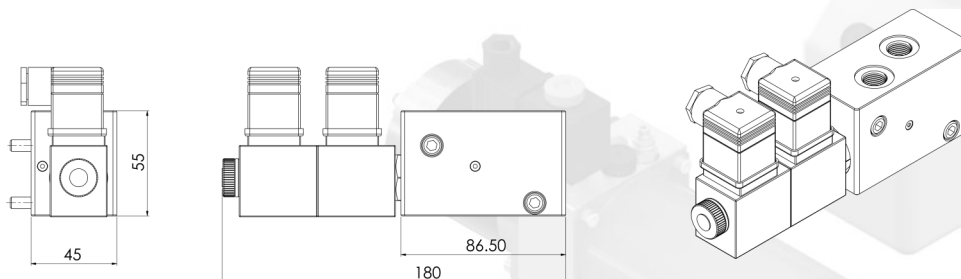
HP Module Dimensions



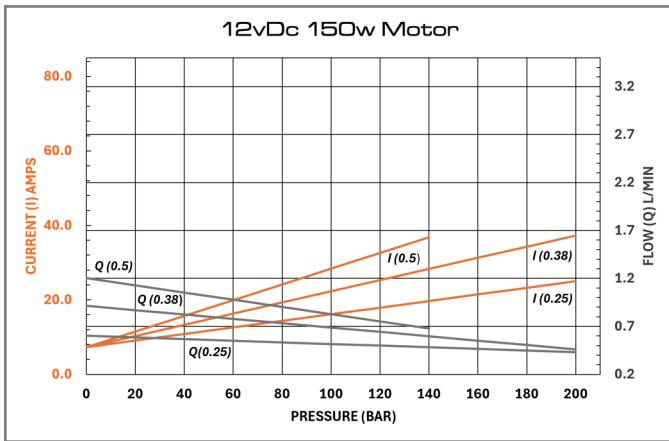
Handles supplied separately

Description	Valve Symbol	A & B Port size	Coil	Code
4-3 Directional Control Valve module		1/4" BSP	Coil voltage selected on page 6 Coil Type Din Only	43A
				43B
				43C
				43D

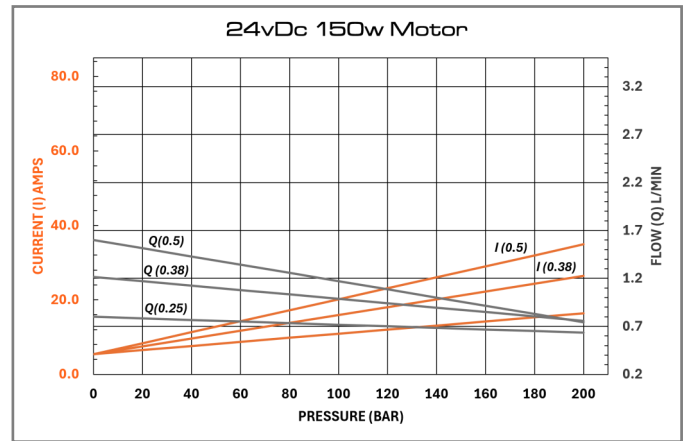
4-3 Module Dimensions



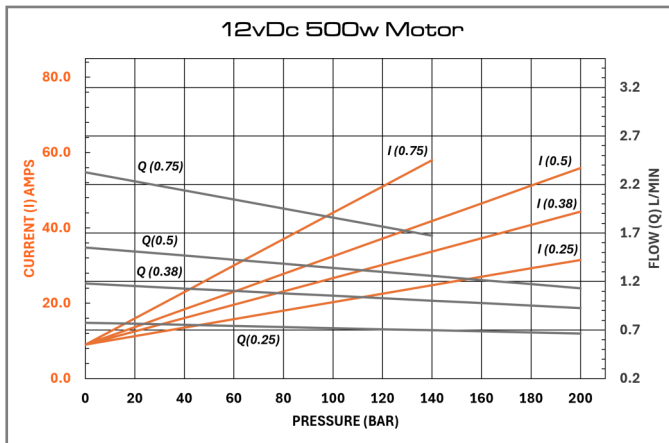
Performance Data



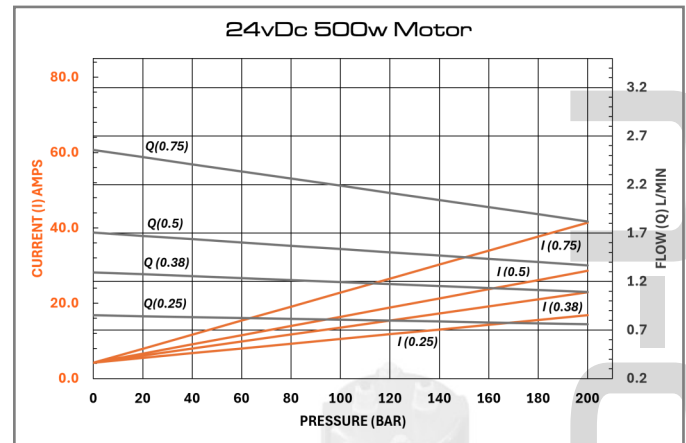
12vDC 150w Motor with
0.25cc, 0.38cc & 0.5cc Gear Pumps



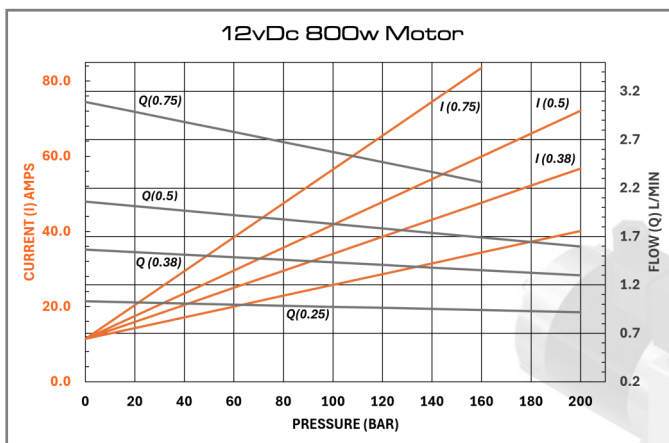
24vDC 150w Motor with
0.25cc, 0.38cc & 0.5cc Gear Pumps



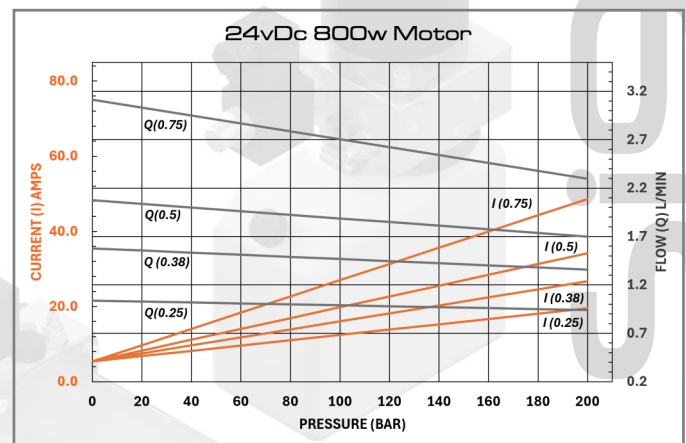
12vDC 500w Motor with
0.25cc, 0.38cc, 0.5cc & 0.75cc Gear Pumps



24vDC 500w Motor with
0.25cc, 0.38cc, 0.5cc & 0.75cc Gear Pumps



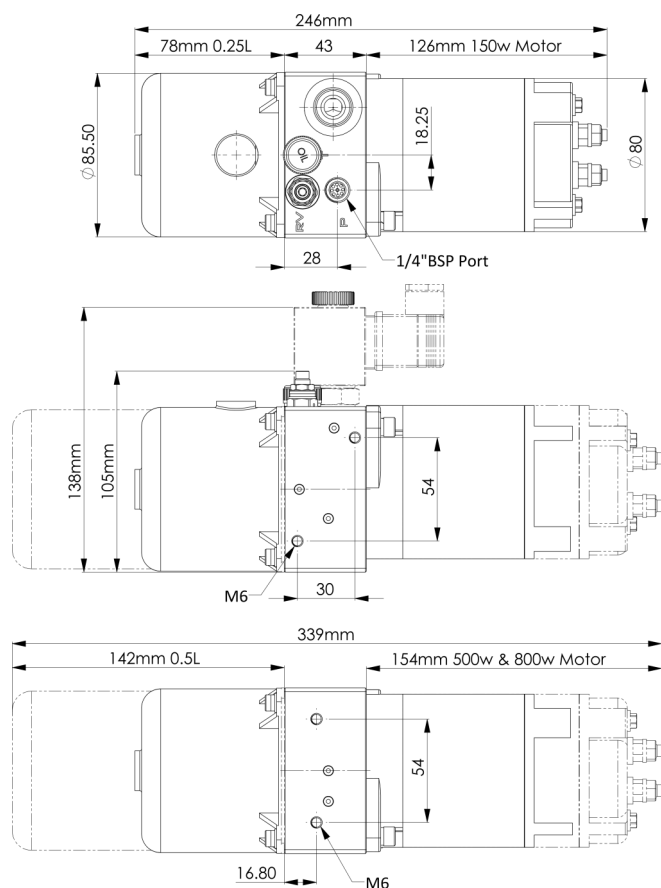
12vDC 800w Motor with
0.25cc, 0.38cc, 0.5cc & 0.75cc Gear Pumps



24vDC 800w Motor with
0.25cc, 0.38cc, 0.5cc & 0.75cc Gear Pumps

Theoretical nominal performance of pack combinations at constant voltage and at nominal 20-25°C with ISO VG32 Oil,
Information provided in good faith but without liability.

DC Motors & 0.2L / 0.5L Tanks



Technical data

Hydraulic Fluid (recommended)

Mineral hydraulic oil (HM or HV)

For normal ambient temp range (0°C - 40°C)

ISO VG22 to ISO VG46

Working temp (ambient) -20°C - 40°C

Weight (approx.) kg

150w motor 2.8kg

500w motor 3.0kg

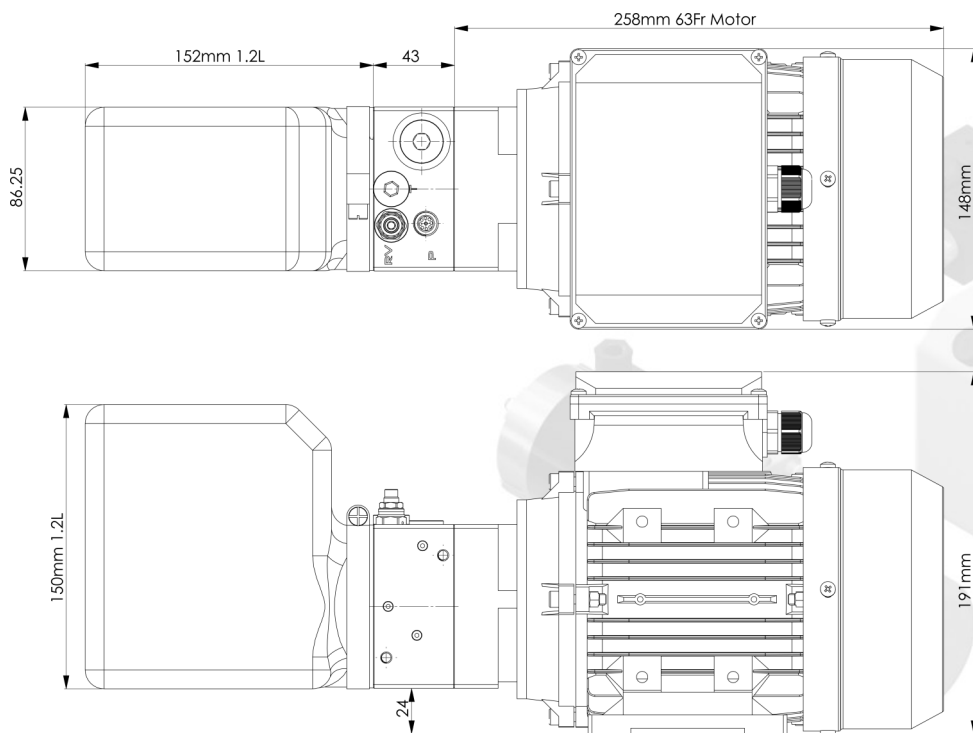
0.25kw AC motor 5.2kg

Maximum pressure (see performance data)

All pump sizes 200Bar

Higher pressure systems available on request

AC Motor & 1.2L Tank



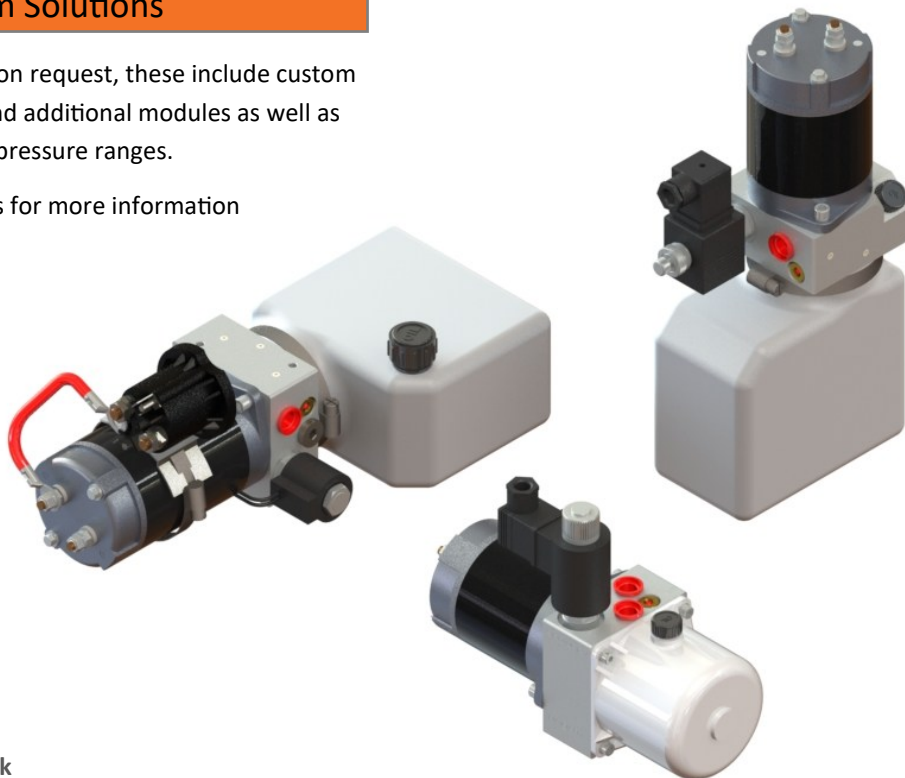
Coding System

	Motor / Starter Relay	Centre Manifold	Valve / Coil	Flow Control	Pump	Orientation , Tank and Filler	Additional Modules					
Pg.	2-3	4	5	6	7	8	9					
U	- -	--	- -	--	--	- - -	--					
	NNN	N	UL	C	N	N	25	H	B	02	Omit if none	
	A15	S	UH	CM	A	8	38	V	S	05	HP	
	A50	M		OM	B	10	50		E	12	43	A
	A80			D	E	12	75					B
	B15			N	F	15						C
	B50			T		20						D
	B80			P		30						
	C25			M		40						

Custom Solutions

Custom solutions available on request, these include custom centre manifolds, tanks and additional modules as well as Increased pressure ranges.

Please contact us for more information



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E-mail: sales@pro-e-con.co.uk

Web: www.pro-e-con.co.uk