

HYDRAULIC POWER UNITS



Developed & assembled in 
CANADA

www.eagle-hydraulic.com

TABLE OF CONTENTS

HYDRAULIC PRODUCT SAFETY		3
MAINTENANCE AND STORAGE		4
POWER UNIT BREAKDOWN		5
INTEGRATED SOLUTIONS		6
BASIC CIRCUIT	Model 01	8
SINGLE ACTING CIRCUIT	Model 02	10
	Model 03	12
	Model 05	14
DOUBLE ACTING CIRCUIT	Model 06 (Snow Plow)	16
	Model 10	18
	Model 11	20
	Model 12	22
	Model 14	24
	Model 15	26
	Model 16	28
	Model 24, 36, 48	30
	Model 28, 42, 56	32
TANK DIMENSIONS		34
MOTOR PERFORMANCE CHART		36
COMPONENTS		40
WARRANTY		47
DEFECT DESCRIPTION FORM		49

MARKETS



AERIAL TRUCK

AGRICULTURE

MATERIAL HANDLING

TRUCK & TRAILER

AUTO LIFT

CONSTRUCTION

SNOW EQUIPMENT

WASTE & REFUSE



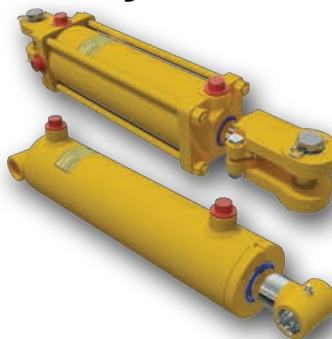
Hydraulic Product Safety



Power Units



Cylinders



Accessories



WARNING

Hydraulic system parts and connections can contain high pressures which, if suddenly and unexpectedly released, can cause serious injury or death.



WARNING (AVISO) (AVERTISSEMENT)

TO PREVENT SERIOUS INJURY OR DEATH FROM MOVING PARTS:
★ KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS.
★ CLOSE ALL GUARDS AND SHIELDS BEFORE OPERATING MACHINERY.
PARA EVITAR LA LESION O LA MUERTE:
★ MANTENGASE A DISTANCIA LAS MANOS, LOS PIES Y LA ROPA DE LAS PARTES MOVIENTES DE LA MAQUINA.
★ CIERREN TODAS LAS PROTECTORAS QUE HAY ANTES QUE HEGAN FUNCIONAR.
AFIN D'ÉVITER TOUTE BLESSURE GRAVE OU LA MORT:
★ NE PAS RAPPROCHER LES MAINS, LES PIEDS OU LES VÊTEMENTS DES PIÈCES MOBILES.
★ S'ASSURE QUE TOUTES LES PIÈCES DE PROTECTION SONT EN PLACE AVANT DE METTRE EN MARCHÉ LA MACHINERIE.



WARNING

HIGH PRESSURE OIL can cause severe injury.
Disconnect power and drain accumulator before servicing hydraulic system.

- ALWAYS WEAR EYE PROTECTION AND PROTECTIVE CLOTHING WHEN WORKING ON AND AROUND HYDRAULIC SYSTEMS.
- NEVER EXHAUST HYDRAULIC FLUID UNDER PRESSURE TO ATMOSPHERE.
- HYDRAULIC FLUID CAN REACH HIGH TEMPERATURES UNDER NORMAL OPERATING CONDITIONS AND CAN BURN EXPOSED SKIN.
- FLUID PRESSURE CAN PENETRATE SKIN AND CAUSE DEATH OR SERIOUS INJURY, WEAR PROPER PROTECTIVE CLOTHING WHEN WORKING ON HYDRAULICS.
- HYDRAULIC DEVICES SHOULD BE PROPERLY “LOCKED-OUT” OR “TAGGED-OUT” BEFORE BEING WORKED ON, INCLUDING THE RELEASE OF ANY STORED ENERGY OR PRESSURE. ENSURE A MECHANICAL LOCKING DEVICE IS IN PLACE TO PREVENT INJURY OR DEATH.
- EAGLE HYDRAULIC COMPONENTS IS NOT RESPONSIBLE FOR MISUSE OR MISAPPLICATION OF PRODUCT.
- DO NOT USE ANY HEAT-PRODUCING EQUIPMENT SUCH AS OXYACETYLENE/GAS TORCHES AND ANGLE GRINDERS ON SEALED HYDRAULIC CYLINDERS.
- REMOVE HYDRAULIC OIL FROM THE CYLINDER BEFORE HEATING THE CYLINDER.
- NEVER OPERATE A CYLINDER (OR POWER UNIT) ABOVE RECOMMENDED PRESSURE.
- ALWAYS USE PROPERLY RATED HOSES AND FITTINGS.
- DO NOT WELD, ADD WELDED ITEMS, DRILL HOLES OR OTHERWISE MODIFY THE CYLINDER FROM ITS ORIGINAL DESIGN.
- THE HYDRAULIC POWER UNIT MAY HEAT UP DURING OPERATION. THE SOLENOIDS IN THE HYDRAULIC POWER UNIT BECOME SO HOT DURING OPERATION THAT YOU MAY SUSTAIN BURNS. YOU SHOULD WEAR HEAT-PROOF GLOVES OR PROTECTIVE CLOTHING.

FEATURES AND STORAGE



EAGLE HYDRAULIC POWER UNIT

Designed and assembled in Montreal, Quebec Canada, Eagle Hydraulic Power Units are built with quality in mind. Eagle power units are rugged enough to withstand the harsh cold and winter conditions of Canada to the booming heat in the south. We have partnered only with the best suppliers to ensure that our Power Units are powerful rugged and reliable. We have many options for you to consider, Eagle Power Units are completely customizable to suit your application requirements.

Our hydraulic power unit is a perfect choice when mated with one of our hydraulic cylinders such as our HTC Telescopic or any of our other hydraulic cylinder options. You can find Eagle hydraulic power units installed on many equipment across North America, including dump trailers, aerial ladder trucks, lift tables and the list goes on...

Tested to perfection, every Eagle Hydraulic Power Unit goes through a thorough pressure test to assure compliance and quality expectations.

EAGLE HYDRAULIC POWER UNIT FEATURES

- SINGLE OR DOUBLE ACTING CONFIGURATION AND MORE...
- 3 RANGES OF MOTORS STANDARD, HEAVY DUTY & LONG DUTY
- 12, 24 VOLT DC
- 115/230 VOLT AC - SINGLE PHASE
- 230/460/575 VOLT AC - THREE PHASE
- POWER UP, DOWN OR BOTH
- MULTIPLE RELIEF VALVES
- PUMP FLOW 0.8 CC TO 8.0 CC
- SHRINK TUBE COVERED WIRES
- WIRELESS REMOTE - LONG RANGE
- 20' CABLE MANUAL REMOTE
- MANUAL CONTROL, 2 OR 4 BUTTONS
- MINIMAL REBOUND SOLENOID
- LOWER AMPERAGE DRAW
- ISOLATED GROUND
- LOW NOISE
- TESTED AT UP TO 3500PSI



POWER UNIT STORAGE

- STEEL POWER UNIT RESERVOIR SHOULD BE FILLED TO PREVENT CORROSION SINCE AMBIENT TEMPERATURE CHANGE CAN RESULTS IN MOISTURE FORMING ON THE INSIDE OF THE TANK CAUSING SPOT RUSTING AND PITTING OF THE TANK SURFACE.
- ALL POWER UNIT ELECTRICAL CONNECTIONS (TERMINATIONS) MUST BE COATED WITH CORROSION INHIBITORS.
- POWER SUPPLY SHOULD BE DISCONNECTED FROM THE POWER UNIT.
- SINGLE ACTING POWER UNIT SHOULD HAVE THE MANUAL OVERRIDE VALVE OPEN.

Eagle Power Units are highly customizable. However, we only stock the most common components. Please call our sales to assure your specific requirement is available.

POWER UNIT MODEL NUMBER BREAKDOWN

ELECTRICAL MOTOR

11 = 12v (1.6 Kw Long Duty)
12 = 12v (1.6 Kw / 2.14 HP)
13 = 12v (2.0 Kw / 2.68 HP)
24 = 24v (2.0 Kw / 2.68 HP)
110 = 115v (1 HP)
111 = 220v (1 HP)
115 = 115v (1.5 Kw / 2 HP)
116 = 115v (2.24 Kw / 3 HP)
220 = 220v (1.5 Kw / 2 HP)
221 = 220v (2.24 Kw / 3 HP)
575 = 230v/460v/575v 3HP - 3Ph

GAS MOTOR

90 = Subaru Gas Engine, Manual Starter, Horizontal Mount
5.7 HP

PLASTIC TANK

B = Plastic 4 Liters (1.0 Gal.)
D = Plastic 6 Liters (1.58 Gal.)
F = Plastic 8 Liters (2.11 Gal.)
G = Plastic 10 Liters (2.64 Gal.)
K = Plastic 4 Gallons (15.1 L)

METAL ROUND TANK

M = Metal Round 1.7 Liters (0.5 Gal.)
N = Metal Round 2.8 Liters (0.75 Gal.)
O = Metal Round 3.9 Liters (1.0 Gal.)
P = Metal Round 5 Liters (1.3 Gal.)
Q = Metal Round 6 Liters (1.59 Gal.)
R = Metal Round 8 Liters (2.1 Gal.)
S = Metal Round 10 Liters (2.6 Gal.)
T = Metal Round 12 Liters (3.2 Gal.)
U = Metal Round 14 Liters (3.7 Gal.)

METAL SQUARE TANK

V = Metal Square 3 Gallons (11.34 L)
L = Metal Square 4 Gallons (15.12 L)
W = Metal Square 5 Gallons (18.9 L)
X = Metal Square 6.24 Gallons (24.2 L)
Y = Metal Square Double Motor 7 Gallons (26.5 L)
Z = Metal Square Flat 6.25 Gallons (23.6 L)
E = Metal Square 8 Gallons (30.2 L)
A = Metal Square 10 Gallons (37.8 L)
***** = No Tank

PUMP

08 = 0.8 cc **32** = 3.2 cc
10 = 1.0 cc **42** = 4.2 cc
16 = 1.6 cc **58** = 5.8 cc
20 = 2.0 cc **80** = 8.0 cc
25 = 2.5 cc

RELIEF VALVE

Two Digits: 00 x 100 PSI

Examples:

05 = 500 PSI
30 = 3000 PSI

TANK ORIENTATION

OMIT = Horizontal
1 = Vertical

Model Number

PU **12** **A** **25** **W** **12** **A** **30** **X**

VALVE VOLTAGE

A = 12v **B** = 24v
C = 110v **D** = 220v

BLOCK MODELS

01 = Basic P & T Ports, No Valve
02 = Pressure Up, Gravity Down, Single Acting with Electrical Valve
03 = Pressure Up, Gravity Down, Single Acting with Manual Valve w/ Motor Start
05 = Pressure Up, Gravity Down, Single Acting with Manual Valve
06 = Pressure Up, Gravity Down, Double Acting from Side to Side w/ Relief Valves (Snow Plow)
10 = Pressure Up and Down, Double Acting With External Check Valves and Relief on "B" Port
11 = Pressure Up and Down, Double Acting With Internal Check Valves and Relief on "B" Port
12 = Pressure Up and Down, Double Acting with D03 Solenoid Valve
14 = Pressure Up and Down, Double Acting with D02 Solenoid Valve
15 = Pressure Up and Down Double Acting, Manual Valve D03
16 = Pressure Up and Down Double Acting, Manual Valve D02
24 = Pressure Up and Down, Double Acting, 2 x D03 Solenoid Valve
28 = Pressure Up and Down, Double Acting, 2 x D02 Solenoid Valve
36 = Pressure Up and Down, Double Acting, 3 x D03 Solenoid Valve
42 = Pressure Up and Down, Double Acting, 3 x D02 Solenoid Valve
48 = Pressure Up and Down, Double Acting, 4 x D03 Solenoid Valve
56 = Pressure Up and Down, Double Acting, 4 x D02 Solenoid Valve

TOOLBOX OPTIONS

C = Plastic Tool Box Kit
CA = Aluminium Tool Box Kit
R = Auto Reset
B = Breakaway
G = Battery Charger
M = Master Switch
T = Tool Trays (Pair)

BLOCK OPTIONS

D = Piloted Check VV Bank 1, Port A & B
E = Piloted Check VV Bank 1 & 2, Port A & B
F = One Way Flow Control Bank 1, Port A & B
G = One Way Flow Control Bank 1 & 2, Port A & B
H = Pressure Relief VV on One Bank, A>T and B>T
L = Add Level Gauge
P = 10cc Manual Hand Pump (avail. on model 02 and 03)
S = Single Acting on Bank 2
V = Pressure Comp. Flow Control (EP1215, Flow 1.3 to 2.25 gpm)
W = Wireless Remote Control
X = Without Remote Control

INTEGRATED SOLUTIONS

EAGLE HYDRAULIC COMPONENTS

**YOUR ONE STOP SHOPPING SOURCE FOR ADDED VALUE AND
QUALITY PRODUCTS**

.....

POWER UNIT

Model: 01, 02, 03, 06, 10, 11, 12, 13, 15, 24, 36, 48

Tank: From 1.7 Liters to 23,5 liters - Plastic or Steel

Pump: 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 & 8.0 cc available

Mounting: Horizontal

POWER UNIT REMOTE CONTROL

Including 20' of 16/3 Cables



SOLAR CHARGER

640130



BREAK AWAY KIT

640070

STAINLESS STEEL BOLT 5/16-18 X 3"

300080

STAINLESS STEEL HEX. NUT 5/16"

307120



BATTERY TRAY 7" X 10.5"

810800



AUTO-RESET FUSE

618110



POLYMER TOOLBOX WITH LOCKING HASP

36" W x 18.75" D x 17.72" H
810100

AMERICAN CHECKERPLATE ALUMINIUM TOOLBOX

36" W x 17.75" D x 16.375" H
810200

AMERICAN CHECKERPLATE ALUMINIUM HIGH TOOLBOX

36" W x 17.75" D x 20.125" H
810300

- **EASILY MOUNTS TO TRAILER A-FRAME**
- **TOOLBOX CAN BE PURCHASED SEPARATELY**
- **GREAT USE AS A STORAGE BOX**



BULKHEAD FITTING

310160

BULKHEAD NUT

307140



WIRELESS REMOTE CONTROL

BLACK (BX-W003)

630020



HYDRAULIC HOSE 3/8"

320XXX



BATTERY CABLE RED, 18" LONG

610240

BATTERY CABLE BLACK, 24" LONG

610260

BATTERY CABLE RED, 24" LONG

610270



BATTERY CHARGER

640120



MASTER SWITCH

640010

INTEGRATED SOLUTIONS

Eagle is not only a hydraulic cylinder manufacturer, our focus to be a value added manufacturer of quality hydraulic components and one stop solutions. We like to be flexible and keep an open mind, strengthening our product portfolio and our services to you, our client. By understanding your needs and opportunities, innovation in design and development of new products, we help each other.

This is what sets Eagle apart from the rest. Our integrated solutions offer a cost effective way to reduce labour and increase the efficiency of your assembly. Assembled from high quality components, the Eagle designed power unit, integrated with the toolbox assembly and accessories is a perfect match when mated with an Eagle hydraulic cylinder.



ASSEMBLED IN CANADA

POWER UNIT BASIC CIRCUIT

MODEL **01**



This power unit has a basic circuit with “P” and “T” SAE#6 (9/16-18) ports. This circuit utilize a cartridge check and adjustable relief valve. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4” NPT breather/dipstick. Design for external mobile valve, defined by the application.

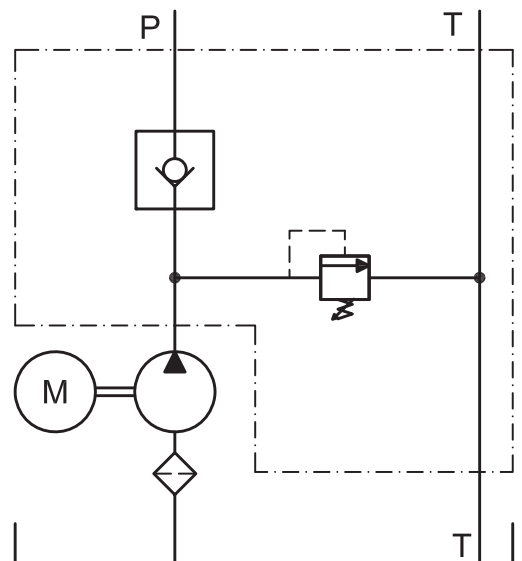
OPTIONS:

- ▶ **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- ▶ **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- ▶ **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- ▶ **Mounting:** Vertical or Horizontal



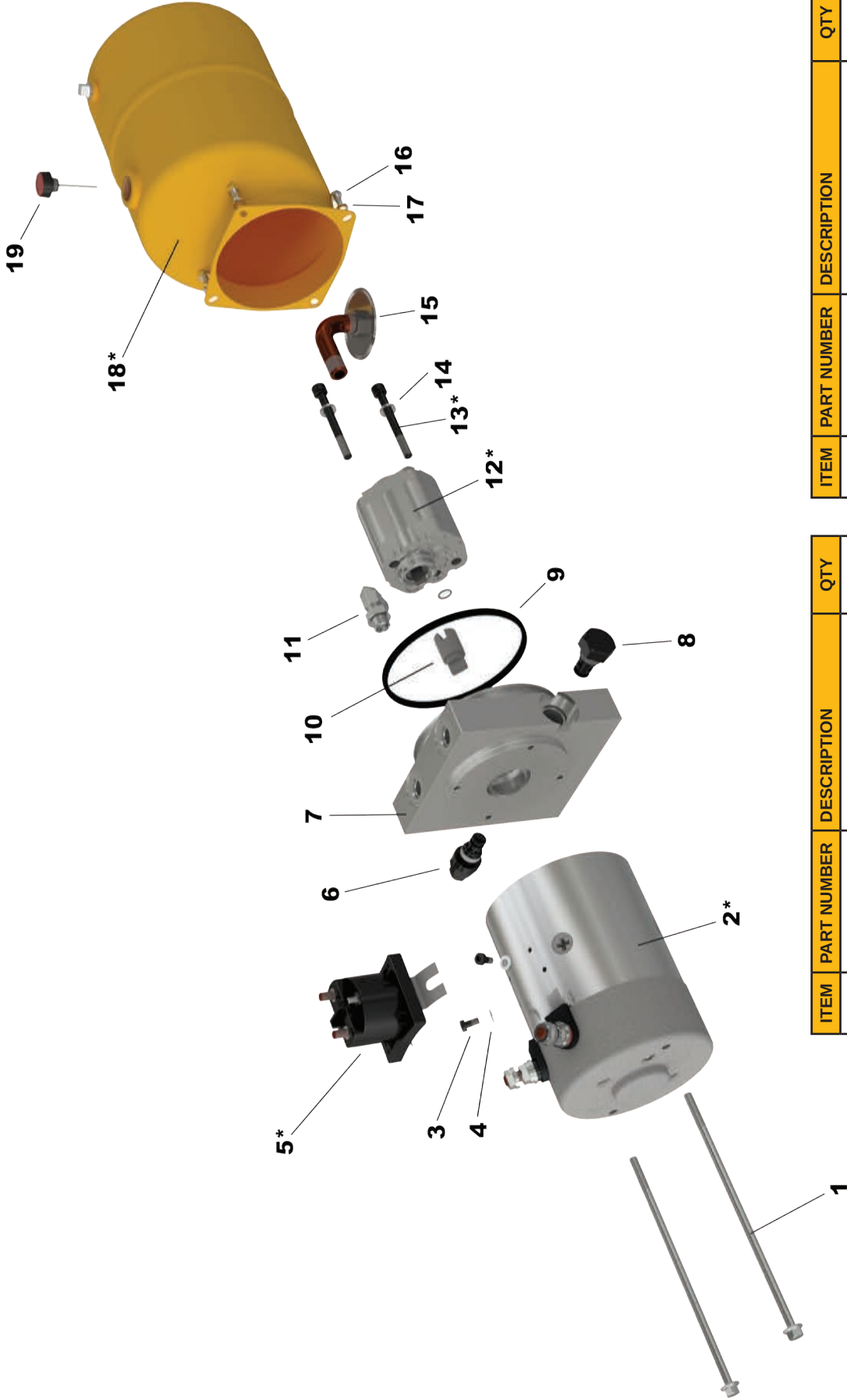
TYPICAL APPLICATION:

- ▶ **Mobile Lifts**
- ▶ **Presses**
- ▶ **Compactor**
- ▶ **Agricultural Equipment**



MODEL 01

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*ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	111000	Relief Valve	1
7	210000	Block	1
8	110100	Checkvalve	1
9	330100	Tank O-Ring	1
10	421000	Motor/Pump Coupler	1

ITEM	PART NUMBER	DESCRIPTION	QTY
11	310020	Block Elbow 90°	1
12	400xxx*	Pump*	1
13	301xxx*	Pump Bolts*	2
14	307080	Lockwasher (Pump Bolts)	2
15	150012	Screen Filter Suction Elbow	1
16	300030	Tank Bolts	4
17	307050	Lockwasher (Tank Bolts)	4
18	500xxx*	Tank*	1
19	520030	Breather	1



POWER UNIT SINGLE ACTING CIRCUIT

MODEL **02**



SHOWN HERE WITH MANUAL HAND PUMP OPTION

This power unit has a single acting circuit with two SAE#6 (9/16-18) ports for straight or 90° hose connection option. The 2 position/2 way cartridge has a manual override and internal check. This circuit design also utilize a cartridge check and adjustable relief valve. The magnetic two button remote control comes with holder and 6 meter of cable, which has a quick connection at the motor. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

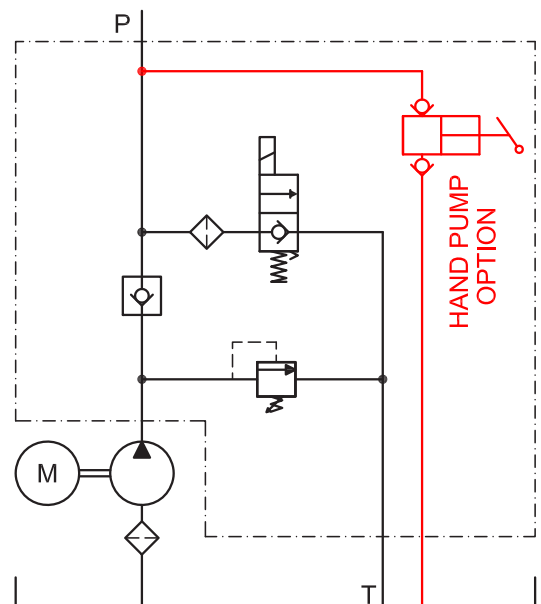
OPTIONS:

- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- 10' remote control cable extension
- **10cc Manual Hand Pump:** Only 1 outlet port with this option



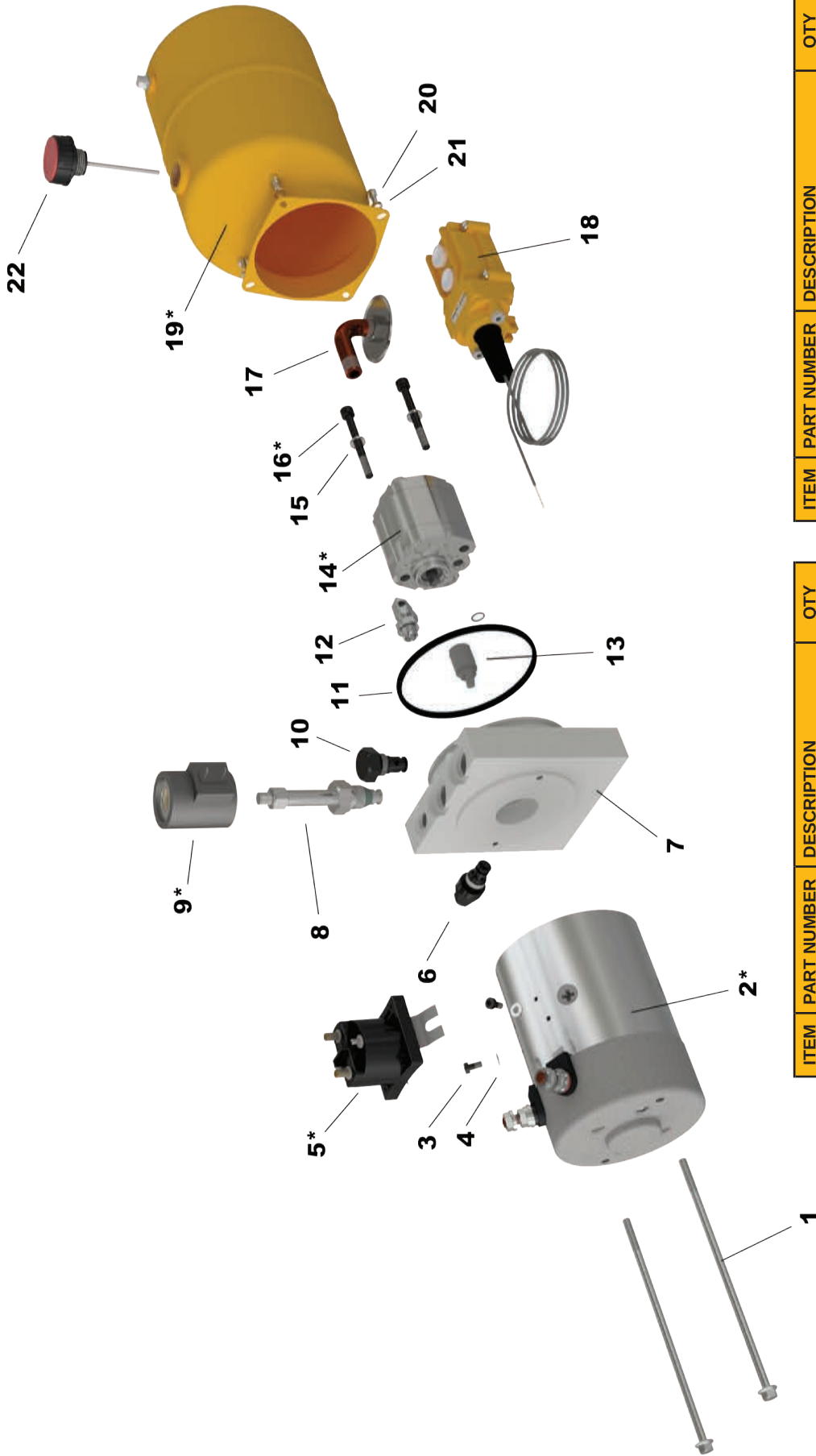
TYPICAL APPLICATION:

- **Pressure Up / Gravity Down System**
- **Tailgate (with pressure comp. flow control)**
- **Dump Trailer**
- **Single Acting Telescopic Cylinders**
- **Scissor Lift**
- **Carlift**



MODEL 02

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ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	111000	Relief Valve	1
7	210020	Block	1
8	115200	Valve w/ manual override	1
9	641xxx*	Coil*	1
10	110100	Checkvalve	1
11	330100	Block O-Ring	1
12	310020	Block Elbow 90°	1

ITEM	PART NUMBER	DESCRIPTION	QTY
13	421000	Motor/Pump Coupler	1
14	400xxx*	Pump*	1
15	307080	Lockwasher (Pump Bolts)	2
16	301xxx*	Pump Bolts*	2
17	150012	Screen Filter Suction Elbow	1
18	630140	Remote Control	1
19	500xxx*	Tank*	1
20	300030	Tank Bolt	4
21	307050	Lockwasher (Tank Bolt)	4
22	520030	Breather	1



POWER UNIT SINGLE ACTING MANUAL VALVE CIRCUIT

MODEL **03**



This power unit has a single acting circuit with two SAE#6 (9/16-18) ports for straight or 90° hose connection option. 2 position/2 way manual valve with internal check. This circuit design also utilise a cartridge check and adjustable relief valve. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

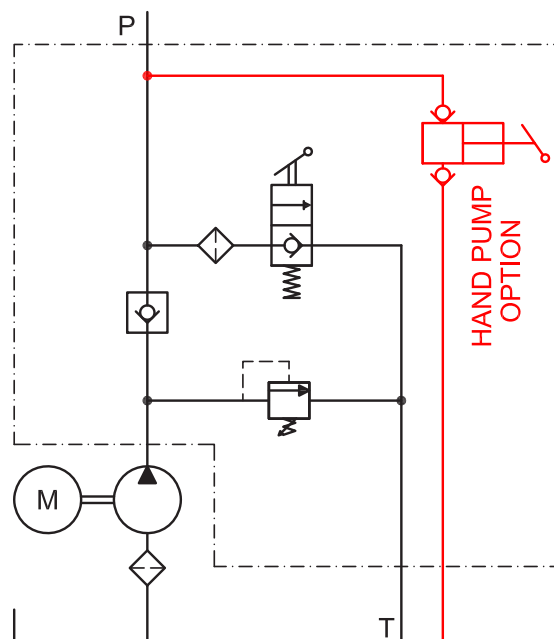
OPTIONS:

- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- **10cc Manual Hand Pump:** Only 1 outlet port with this option



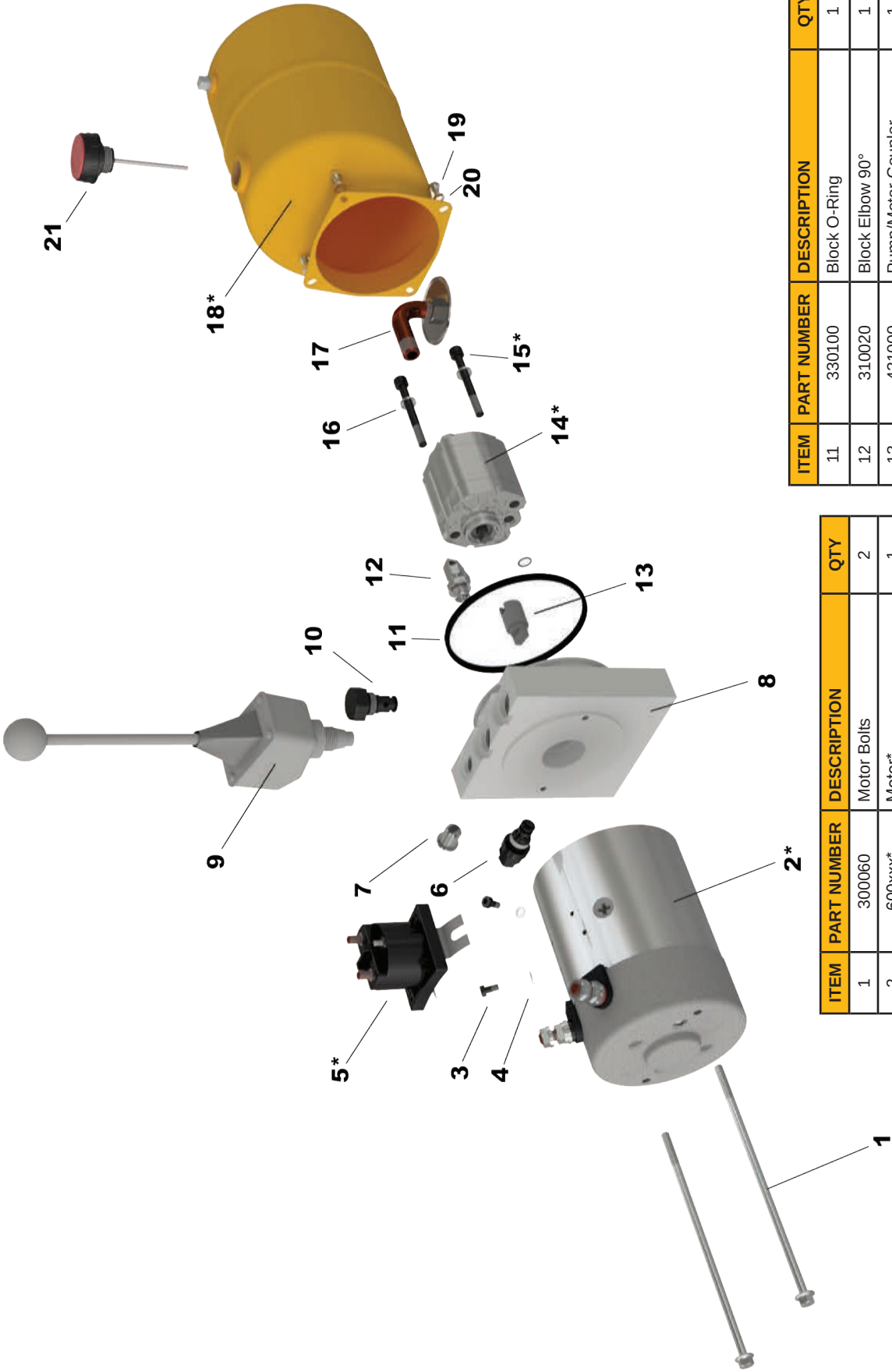
TYPICAL APPLICATION:

- **Pressure Up / Gravity Down System**
- **Dump Trailer**
- **Single Acting Telescopic Cylinders**
- **Scissor Lift**
- **Carlift**



MODEL 03

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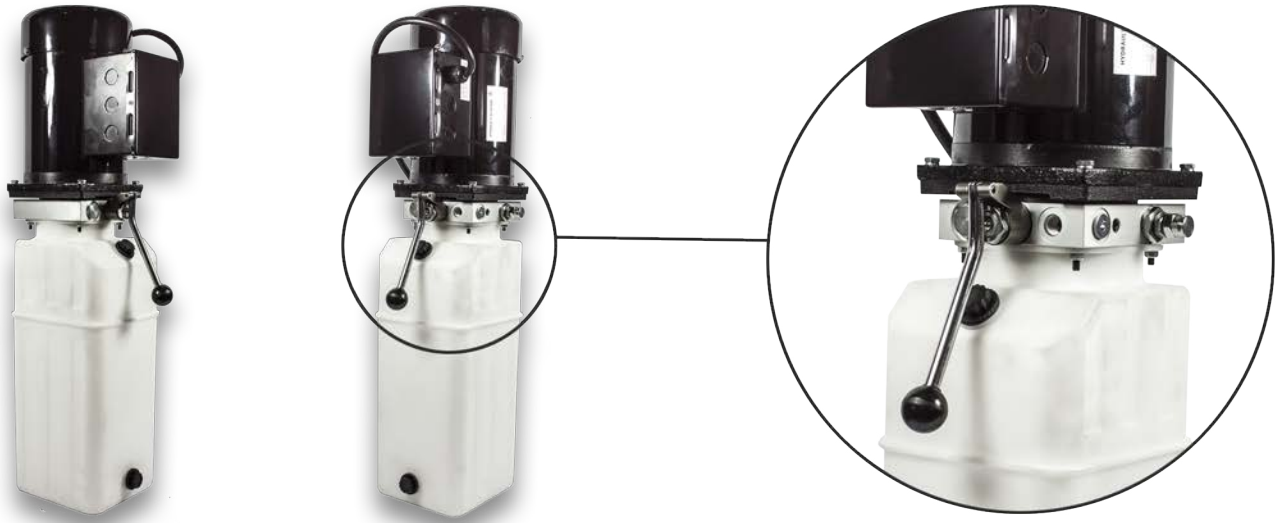
ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	111000	Relief Valve	1
7	315000	Block Plug	1
8	210020	Block	1
9	115230	Manual Valve	1
10	110100	Checkvalve	1

ITEM	PART NUMBER	DESCRIPTION	QTY
11	330100	Block O-Ring	1
12	310020	Block Elbow 90°	1
13	421000	Pump/Motor Coupler	1
14	400xxx*	Pump*	1
15	301xxx*	Pump Bolts*	2
16	307080	Lockwasher (Pump Bolts)	2
17	150012	Screen Filter Suction Elbow	1
18	500xxx*	Tank*	1
19	300030	Tank Bolt	4
20	307050	Lockwasher (Tank Bolt)	4
21	520030	Breather	1



POWER UNIT SINGLE ACTING CIRCUIT

MODEL **05**



This power unit has a single acting circuit with two SAE#6 (9/16-18) ports for straight or 90° hose connection option. 2 position/2 way manual valve with internal check. This circuit design also utilise a cartridge check and adjustable relief valve. The gear pump is equipped with a suction screen inside the tank which comes with a 3/4" NPT breather/dipstick.

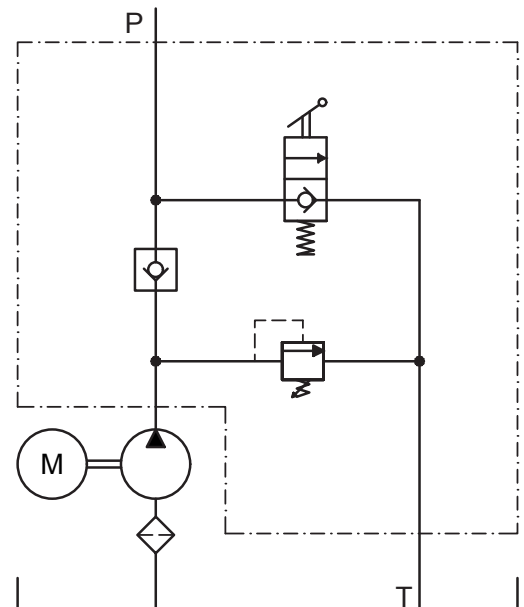
OPTIONS:

- ▶ **Motor:** AC 115/230V, single phase
AC 230/460/575V three phase
- ▶ **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- ▶ **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- ▶ **Mounting:** Vertical



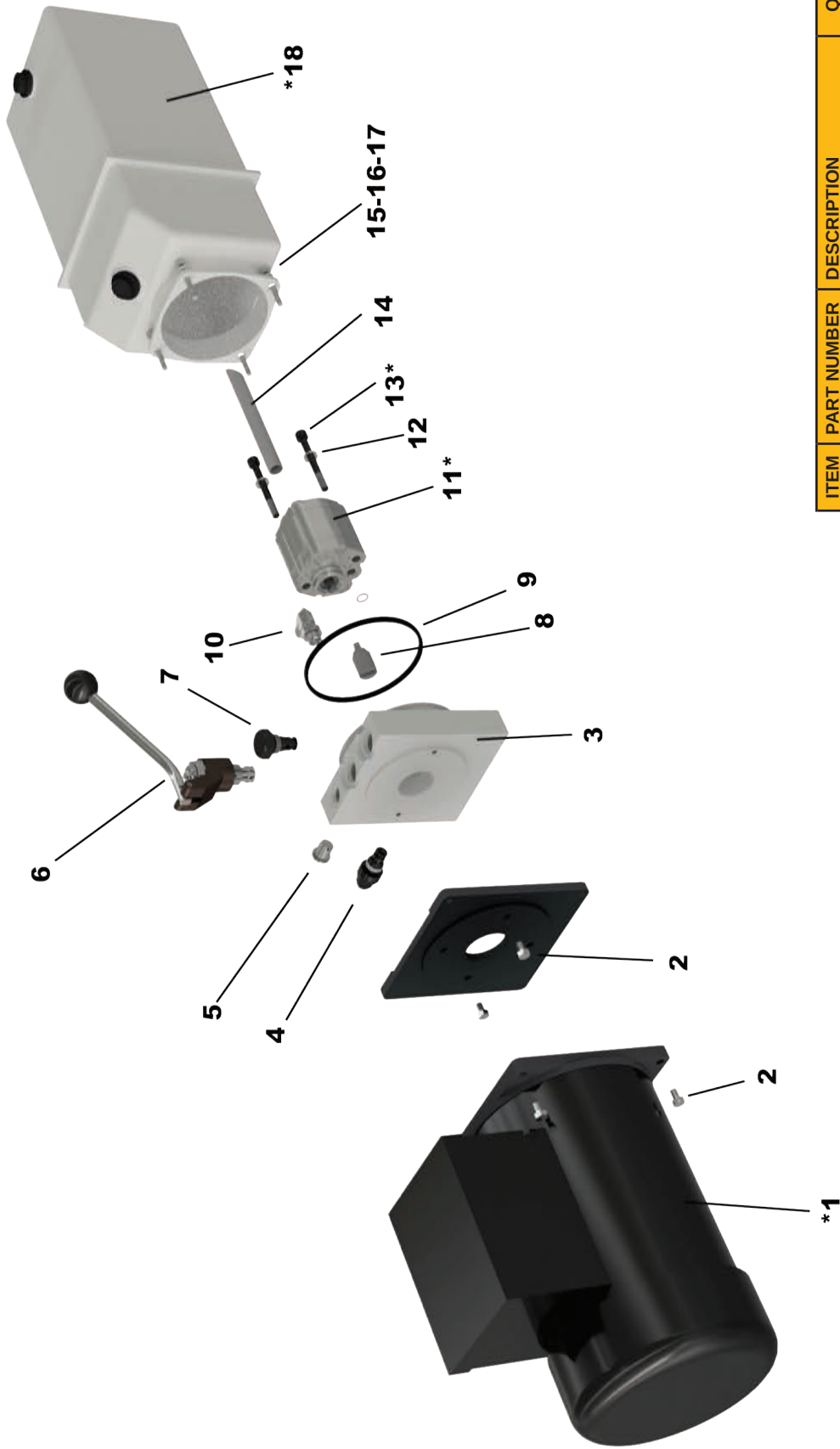
TYPICAL APPLICATION:

- ▶ **Pressure Up / Gravity Down System**
- ▶ **Single Acting Telescopic Cylinders**
- ▶ **Scissor Lift**
- ▶ **Carlift**



MODEL 05

All numbers given are nominal values and should be used for reference only.
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ITEM	PART NUMBER	DESCRIPTION	QTY
1	600xxx*	Motor*	2
2	300070	Motor Bolt	4
3	210020	Block	1
4	111000	Relief Valve	1
5	315000	Block Plug	1
6	115250	Manual Valve	1
7	110100	Checkvalve	1
8	421000	Pump/Motor Coupler	1

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ITEM	PART NUMBER	DESCRIPTION	QTY
9	330100	Block O-Ring	1
10	310020	Block Elbow 90°	1
11	400xxx*	Pump*	1
12	307080	Lockwasher (Pu mp Bolts)	2
13	301xxx*	Pump Bolts*	2
14	710035	Suction Tube	1
15	300050	Tank Stud	4
16	307050	Lockwasher (Tank Bolts)	4
17	307100	Tank Stud Nut	4
18	500xxx*	Tank*	1



POWER UNIT WITH SINGLE AND DOUBLE ACTING CIRCUITS

MODEL **06**



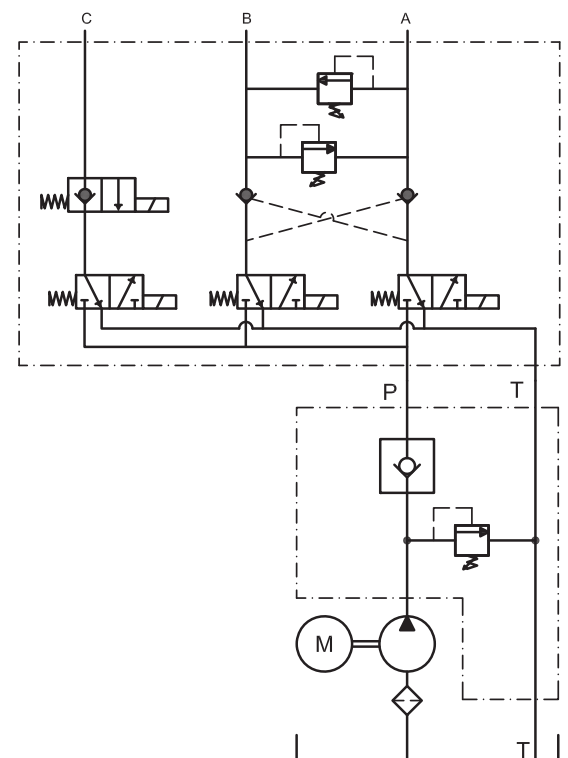
This power unit has a double acting circuit for left and right movement with cross-over relief system and pilot operated check valves. Also a single acting power up with check valve and gravity down circuit as well in a convenient one piece aluminum block. The main housing encloses a check and adjustable relief valve as per our standard. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick. Comes standard with our 4 button remote control.

OPTIONS:

- **Motor:** DC 12 & 24v, std or powder coated long duty in 12v
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal

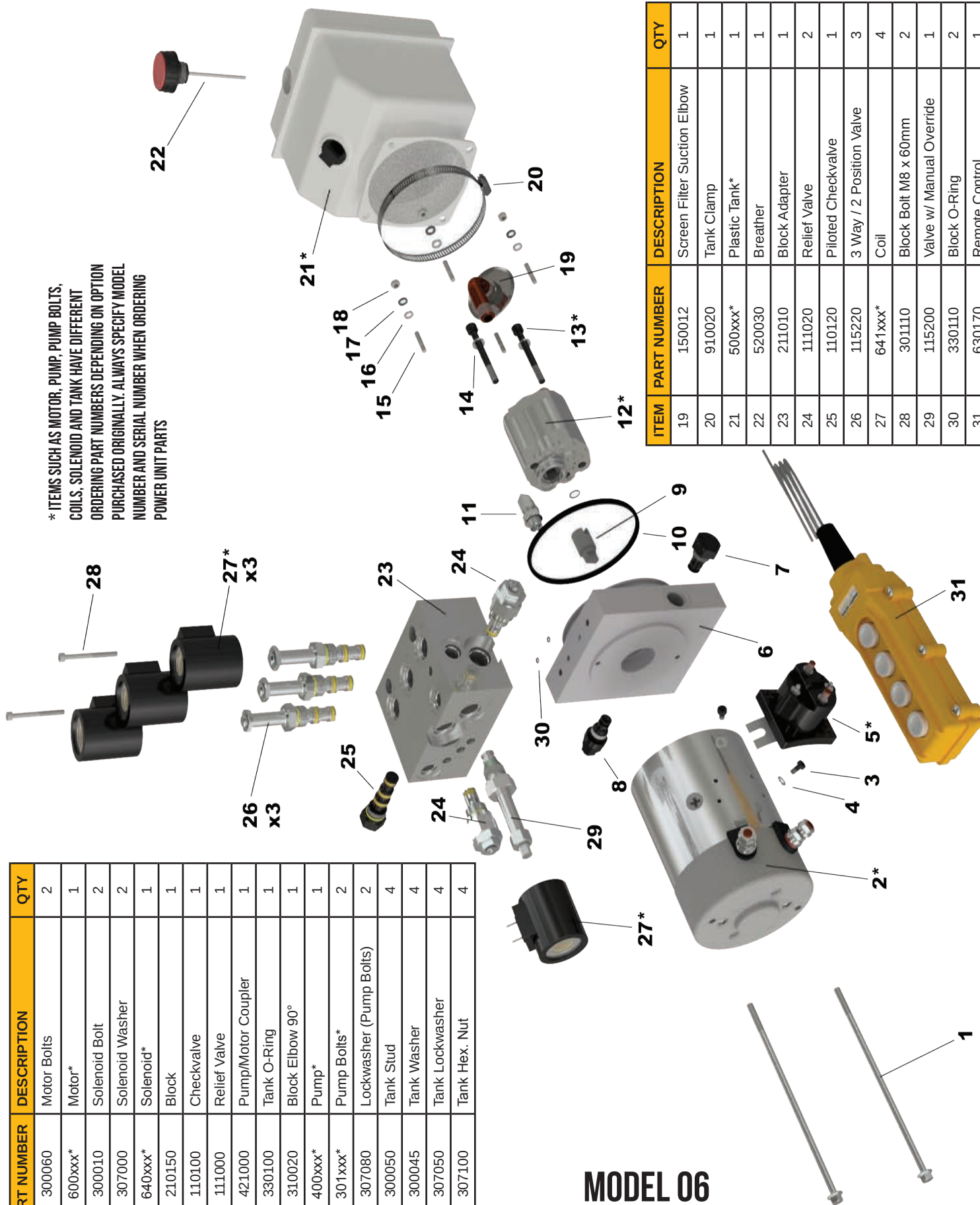
TYPICAL APPLICATION:

- **Snow Plow**
- **System requiring Power Up with check, Gravity Down, Left, Right**



ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210150	Block	1
7	110100	Checkvalve	1
8	111000	Relief Valve	1
9	421000	Pump/Motor Coupler	1
10	330100	Tank O-Ring	1
11	310020	Block Elbow 90°	1
12	400xxx*	Pump*	1
13	301xxx*	Pump Bolts*	2
14	307080	Lockwasher (Pump Bolts)	2
15	300050	Tank Stud	4
16	300045	Tank Washer	4
17	307050	Tank Lockwasher	4
18	307100	Tank Hex. Nut	4

* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS



ITEM	PART NUMBER	DESCRIPTION	QTY
19	150012	Screen Filter Suction Elbow	1
20	910020	Tank Clamp	1
21	500xxx*	Plastic Tank*	1
22	520030	Breather	1
23	211010	Block Adapter	1
24	111020	Relief Valve	2
25	110120	Piloted Checkvalve	1
26	115220	3 Way / 2 Position Valve	3
27	641xxx*	Coil	4
28	301110	Block Bolt M8 x 60mm	2
29	115200	Valve w/ Manual Override	1
30	330110	Block O-Ring	2
31	630170	Remote Control	1

MODEL 06

All numbers given are nominal values and should be used for reference only. All product specifications are subject to change without prior notice.

EXPLODED VIEW

POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **10**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. The 2 position/2 way cartridge has an internal piloted check valve to prevent internal bypass and maintain constant pressure. This circuit design also utilize a cartridge check and adjustable relief valve on the main and B port. The magnetic two button remote control comes with holder and 6 meter of cable, which has a quick connection at the motor. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

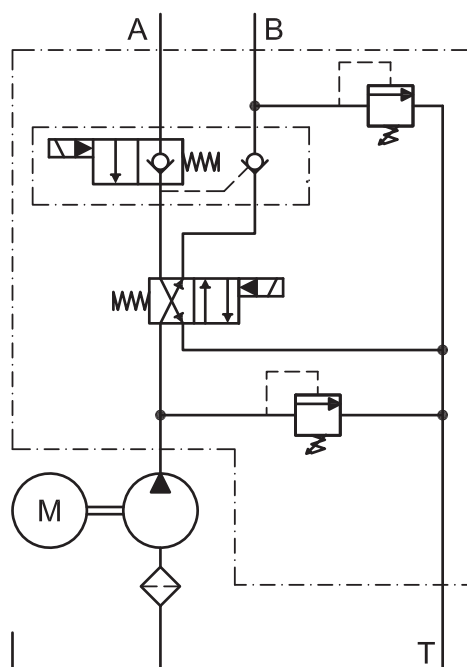
OPTIONS:

- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **10' remote control cable extension**
- **Mounting:** Vertical or Horizontal



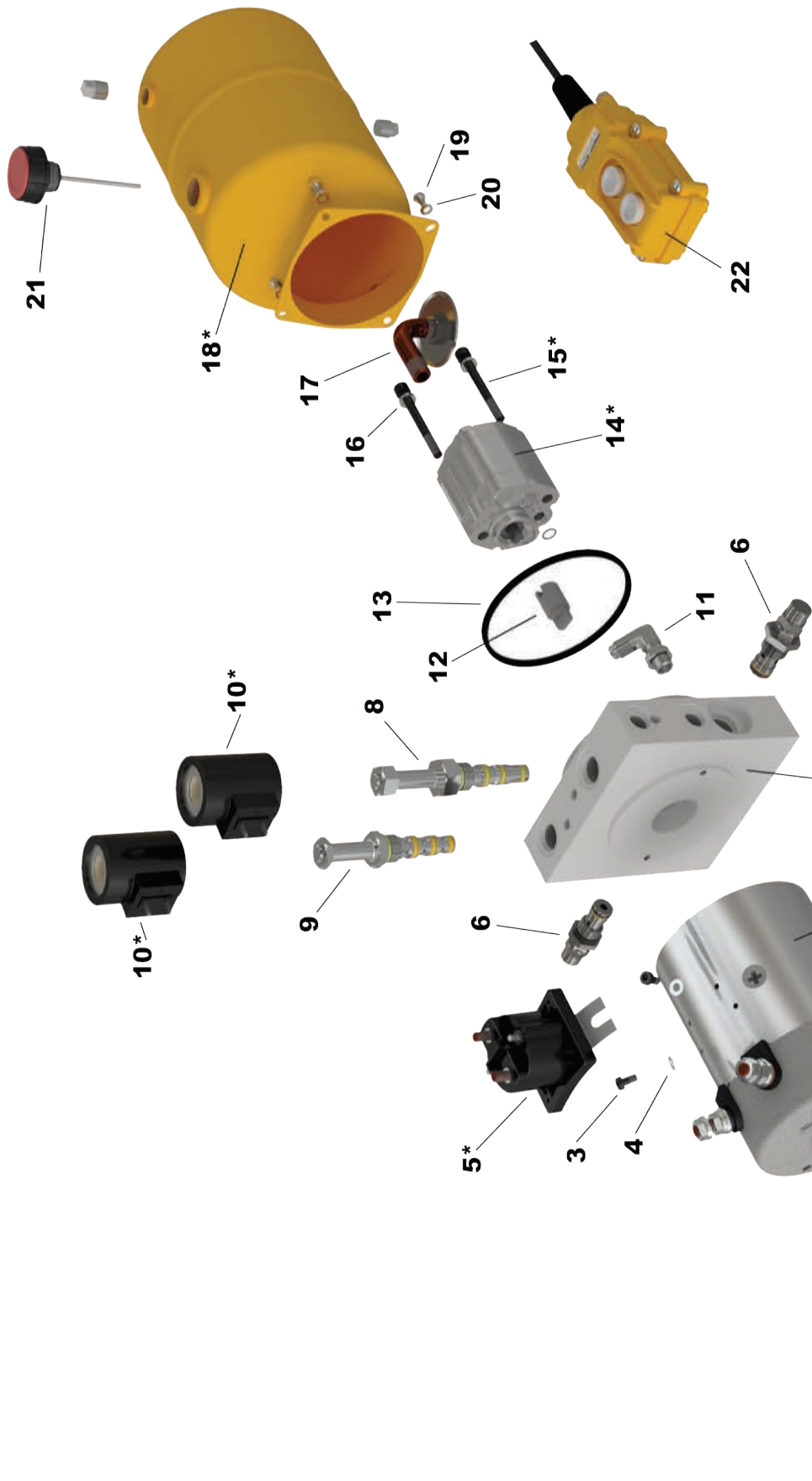
TYPICAL APPLICATION:

- **Power Up / Power Down System**
- **Tailgate (with pressure comp. flow control)**
- **Dump Trailer**
- **Compactor**
- **Presses**
- **Lift Equipment**



MODEL 10

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.



* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
11	310020	Block Elbow 90°	1
12	421000	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	400xxx*	Pump*	1
15	301xxx*	Pump Bolt*	2
16	307080	Lockwasher (Pump Bolt)	2
17	150012	Screen Filter Suction Elbow	1
18	500xxx*	Tank*	1
19	300030	Tank Bolt	4
20	307050	Lockwasher (Tank Bolt)	4
21	520030	Breather	1
22	630060	Remote Control	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	111000	Relief Valve	2
7	210090	Block	1
8	115310	2 Way / 2 Position Valve	1
9	115300	4 Way / 2 Position Valve	1
10	641xxx*	Coil	2



POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **11**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. The 2 position/2 way cartridge has an internal piloted check valve to prevent internal bypass and maintain constant pressure. This circuit design also utilize a cartridge check and adjustable relief valve on the main and internal B port. The magnetic two button remote control comes with holder and 6 meter of cable, which has a quick connection at the motor. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

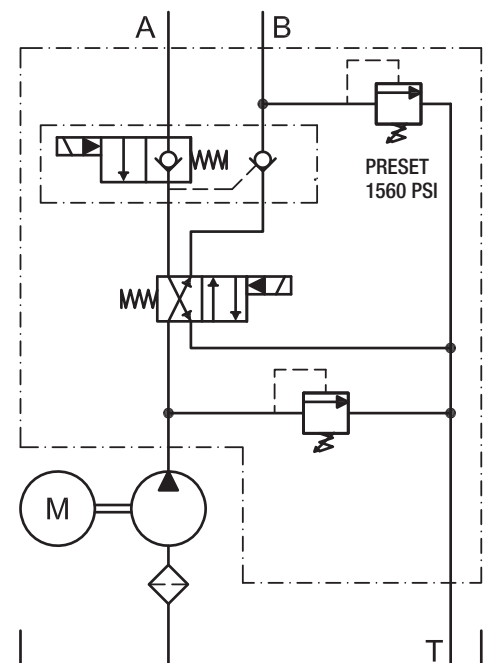
OPTIONS:

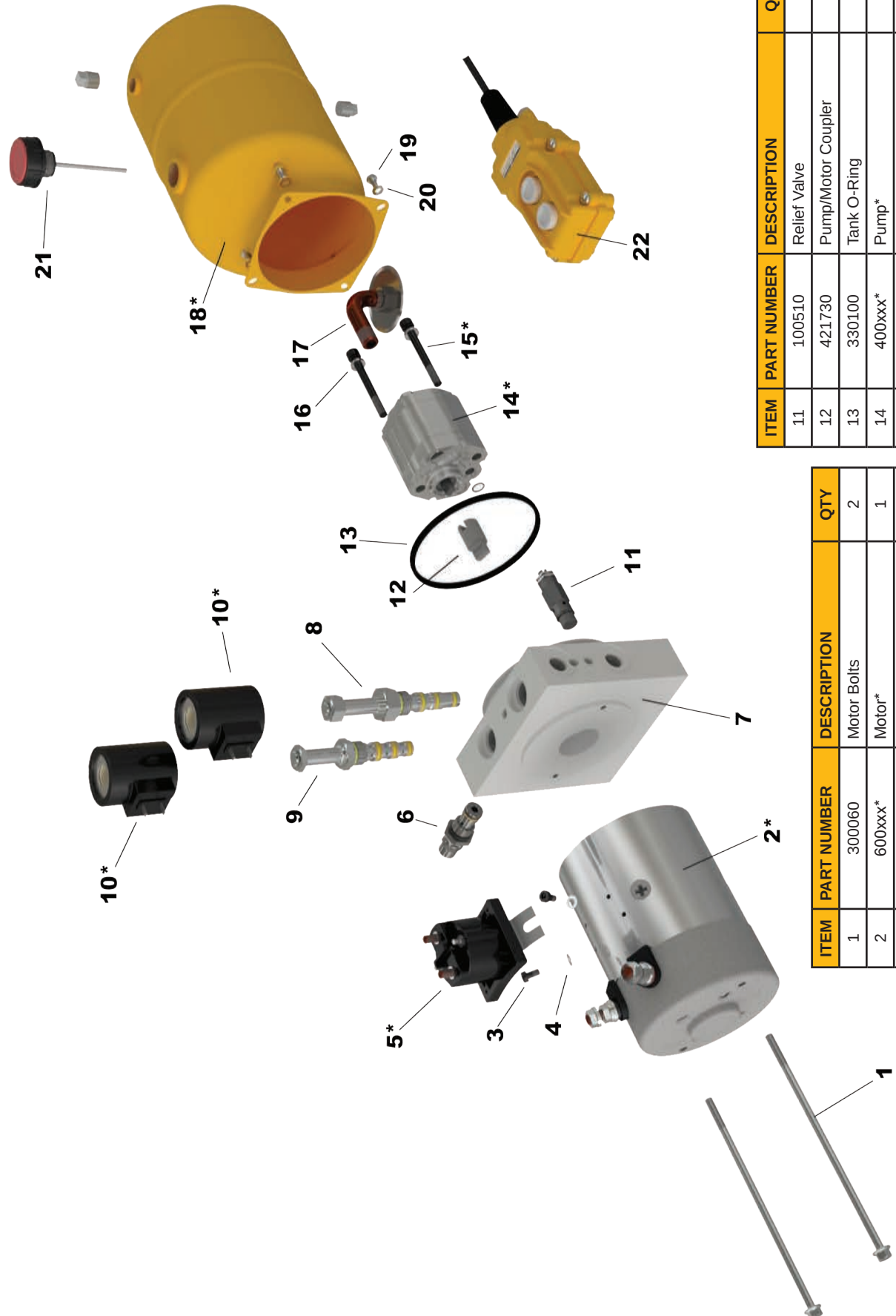
- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **10' remote control cable extension**
- **Mounting:** Vertical or Horizontal



TYPICAL APPLICATION:

- **Power Up / Power Down System**
- **Tailgate (with pressure comp. flow control)**
- **Dump Trailer**
- **Compactor**
- **Presses**
- **Lift Equipment**





MODEL 11

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.

EXPLODED VIEW

* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
11	100510	Relief Valve	1
12	421730	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	400xxx*	Pump*	1
15	301xxx*	Pump Bolt*	2
16	307080	Lockwasher (Pump Bolt)	2
17	150012	Screen Filter Suction Elbow	1
18	500xxx*	Tank*	1
19	300030	Tank Bolt	4
20	307050	Lockwasher (Tank Bolt)	4
21	520030	Breather	1
22	630060	Remote Control	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	111000	Relief Valve	1
7	210080	Block	1
8	115310	2 Way / 2 Position Valve	1
9	115300	4 Way / 2 Position Valve	1
10	641xxx*	Coil	2

POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **12**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way modular valve (D03) that can be combined with other modular options such as piloted check valves, flow control or even port pressure relief (See P.6 in accessories catalogue). This circuit design also utilize a cartridge check and adjustable relief valve. The magnetic two button remote control comes with holder and 6 meter of cable, which has a quick connection at the motor. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

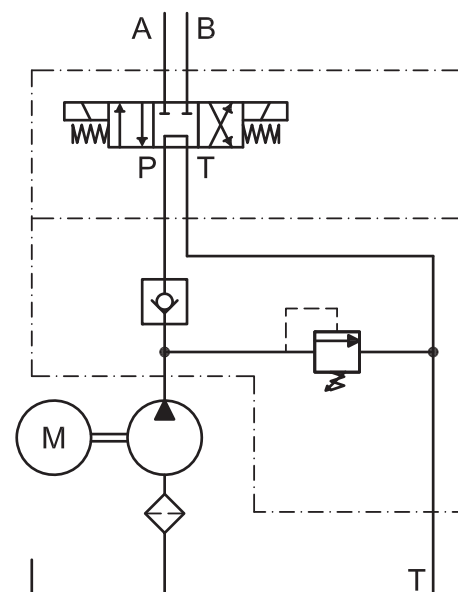
OPTIONS:

- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- 10' remote control cable extension
- **Mounting:** Vertical or Horizontal

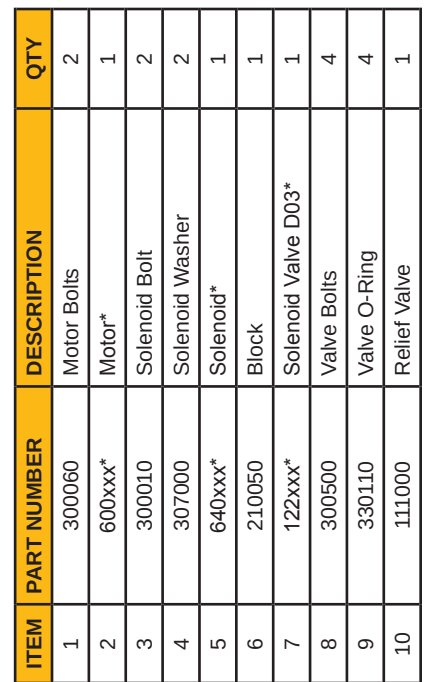


TYPICAL APPLICATION:

- Power Up / Power Down System
- Dump Trailer
- Compactor
- Presses



All numbers given are nominal values and should be used for reference only.
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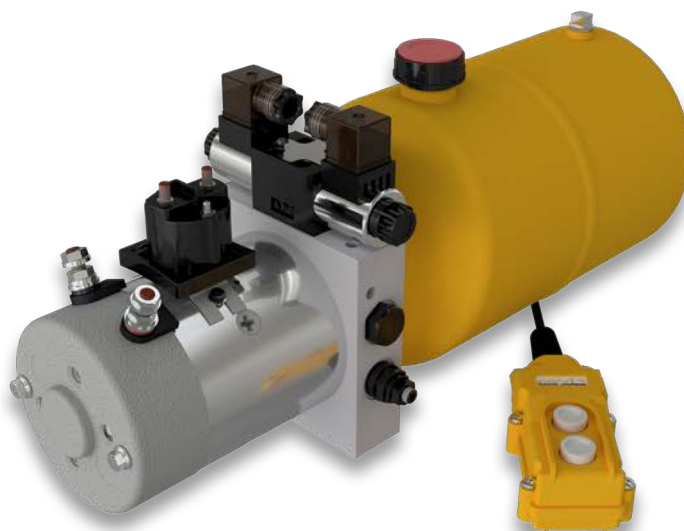


*** ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS**

ITEM	PART NUMBER	DESCRIPTION	QTY
11	110100	Checkvalve	1
12	330100	Tank O-Ring	1
13	421730	Pump/Motor Coupler	1
14	400xxx*	Pump*	1
15	310020	Block Elbow 90°	1
16	301xxx*	Pump Bolt*	2
17	307080	Lockwasher (Pump Bolt)	2
18	150012	Screen Filter Suction Elbow	1
19	500xxx*	Tank*	1
20	300030	Tank Bolt	4
21	307050	Lockwasher (Tank Bolt)	4
22	520030	Breather	1
23	630060	Remote Control	1

POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **14**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way modular valve (D02) that can be combined with other modular options such as piloted check valves, flow control or even port pressure relief (See P.6 in accessories catalogue). This circuit design also utilizes a cartridge check and adjustable relief valve. The magnetic two button remote control comes with holder and 6 meter of cable, which has a quick connection at the motor. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

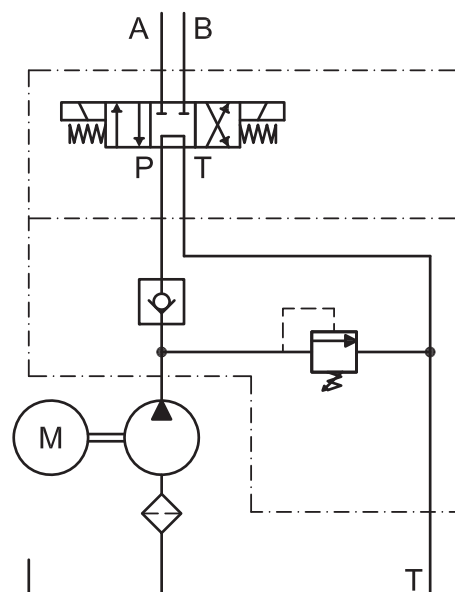
OPTIONS:

- ▶ **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- ▶ **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- ▶ **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- ▶ 10' remote control cable extension
- ▶ **Mounting:** Vertical or Horizontal

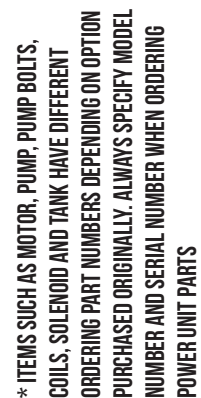


TYPICAL APPLICATION:

- ▶ Power Up / Power Down System
- ▶ Dump Trailer
- ▶ Compactor
- ▶ Presses



All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.



ITEM	PART NUMBER	DESCRIPTION	QTY
11	110100	Checkvalve	1
12	330100	Tank O-Ring	1
13	421730	Pump/Motor Coupler	1
14	400xxx*	Pump*	1
15	310020	Block Elbow 90°	1
16	301xxx*	Pump Bolt*	2
17	307080	Lockwasher (Pump Bolt)	2
18	150012	Screen Filter Suction Elbow	1
19	500xxx*	Tank*	1
20	300030	Tank Bolt	4
21	307050	Lockwasher (Tank Bolt)	4
22	520030	Breather	1
23	630060	Remote Control	1

POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **15**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way manual modular valve (D03) without integrated micro switch, that can be combined with other modular options such as piloted check valves, flow control or even port pressure relief (See accessories catalogue). This circuit design utilize a cartridge check and adjustable relief valve. The gear pump is equipped with a suction screen attached to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

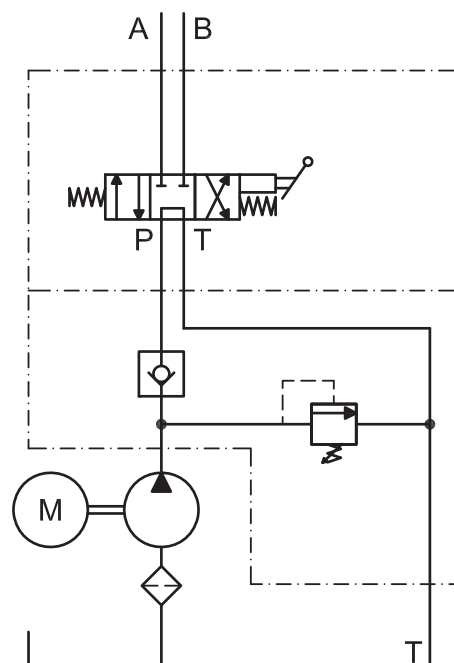
OPTIONS:

- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal



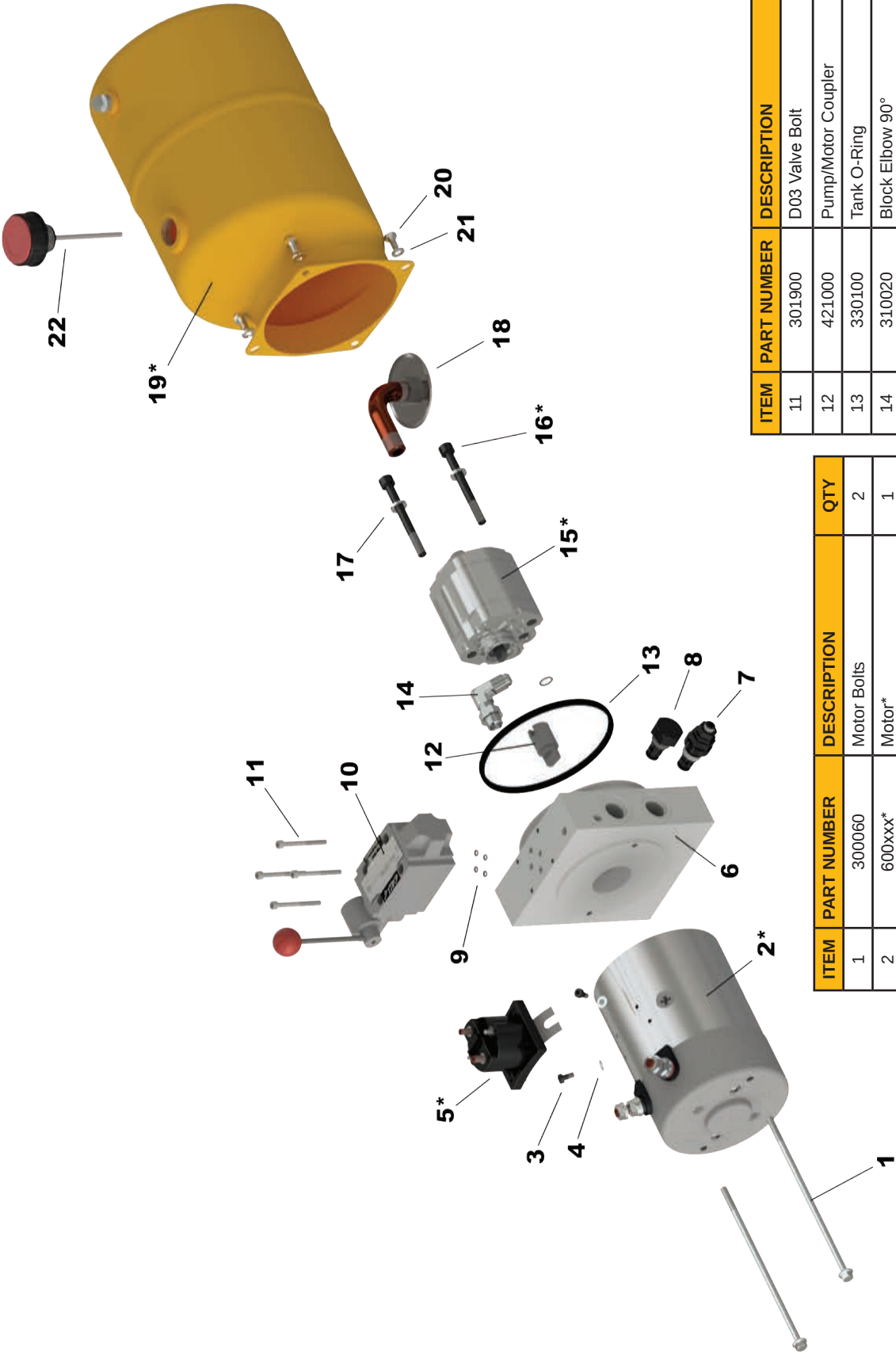
TYPICAL APPLICATION:

- **Power Up / Power Down System**
- **Compactor**
- **Presses**



MODEL 15

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.



ITEM	PART NUMBER	DESCRIPTION	QTY
11	301900	D03 Valve Bolt	4
12	421000	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	310020	Block Elbow 90°	1
15	400xxx*	Pump*	1
16	301xxx*	Pump Bolt*	2
17	307080	Lockwasher (Pump Bolt)	2
18	150012	Screen Filter Suction Elbow	1
19	500xxx*	Tank	1
20	300030	Tank Bolt	4
21	307050	Lockwasher (Tank Bolt)	4
22	520030	Breather	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210050	Block	1
7	111000	Relief Valve	1
8	110100	Checkvalve	1
9	330110	Valve O-Ring	4
10	122010	D03 Manual Valve	1

* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS



POWER UNIT DOUBLE ACTING CIRCUIT

MODEL **16**



This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way manual modular valve (D02), that can be combined with other modular options such as piloted check valves, flow control or even port pressure relief (See accessories catalogue). This circuit design utilize a cartridge check and adjustable relief valve. The gear pump is equipped with a suction screen attached to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick.

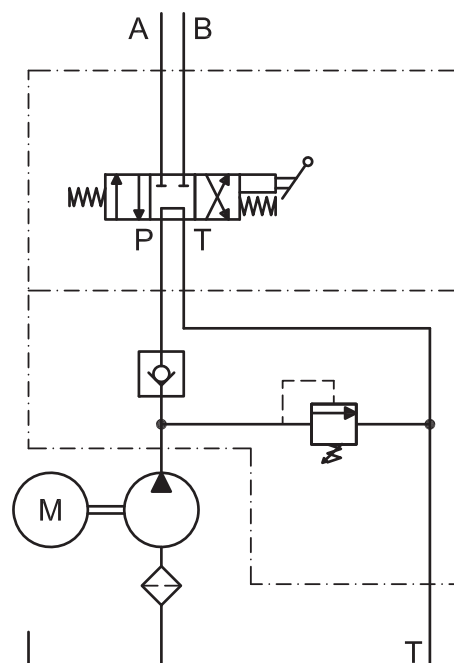
OPTIONS:

- ▶ **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- ▶ **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- ▶ **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- ▶ **Mounting:** Vertical or Horizontal



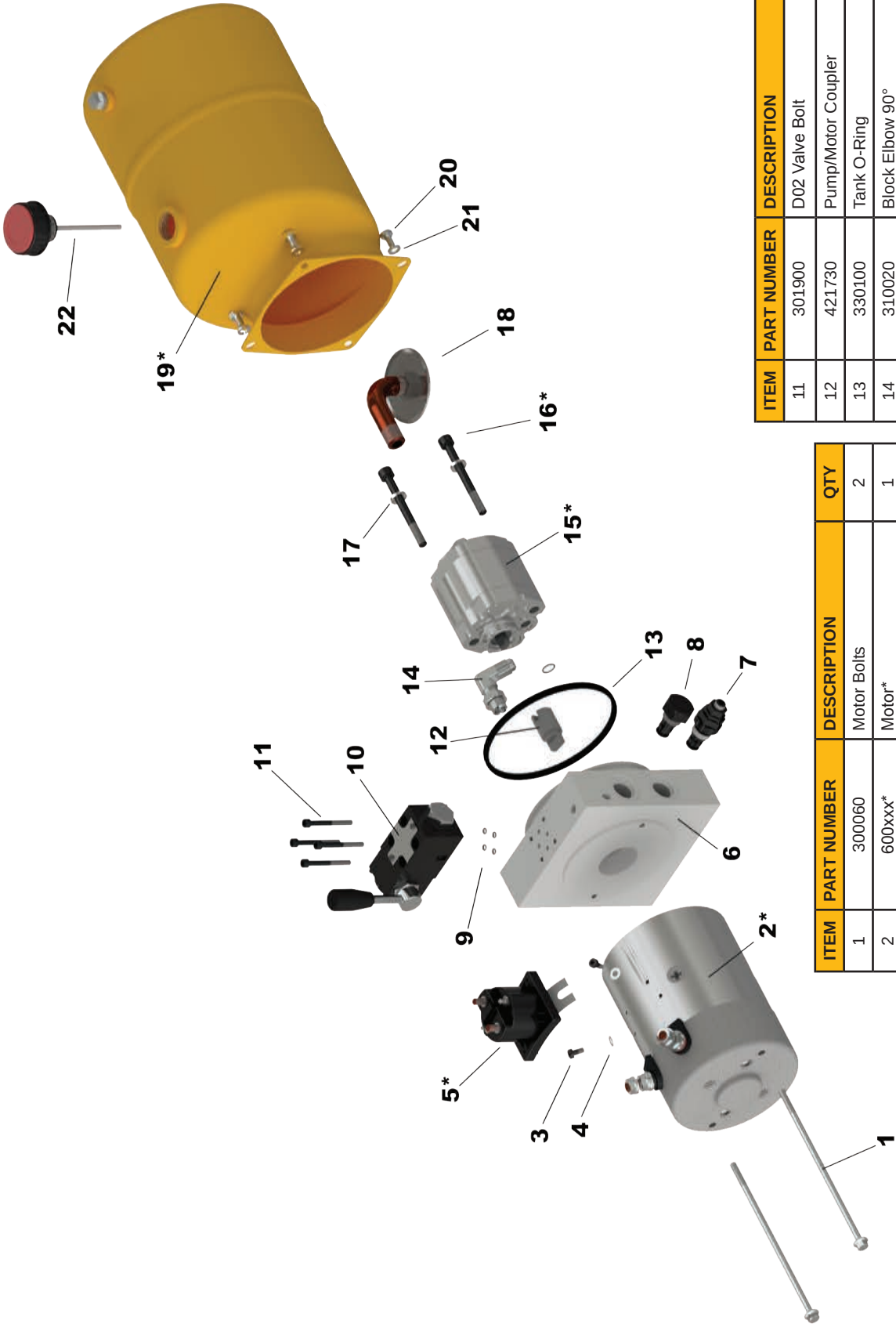
TYPICAL APPLICATION:

- ▶ **Power Up / Power Down System**
- ▶ **Compactor**
- ▶ **Presses**



MODEL 16

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.



* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
11	301900	D02 Valve Bolt	4
12	421730	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	310020	Block Elbow 90°	1
15	400xxx*	Pump*	1
16	301xxx*	Pump Bolt*	2
17	307080	Lockwasher (Pump Bolt)	2
18	150012	Screen Filter Suction Elbow	1
19	500xxx*	Tank*	1
20	300030	Tank Bolt	4
21	307050	Lockwasher (Tank Bolt)	4
22	520030	Breather	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210140	Block	1
7	111000	Relief Valve	1
8	110100	Checkvalve	1
9	330110	Valve O-Ring	4
10	122030	D02 Manual Valve	1



POWER UNIT WITH SINGLE AND/OR DOUBLE ACTING CIRCUITS

MODEL 24,36,48



MODEL 24 HORIZONTAL

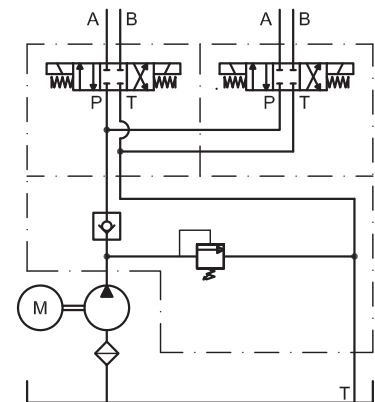


MODEL 48 VERTICAL

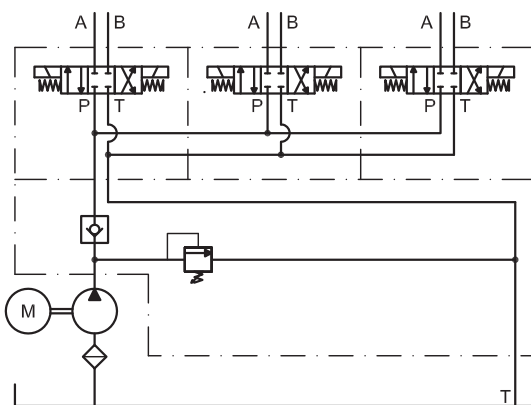
This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way modular valve (D03) that can be stacked and combined with other modular options such as piloted check valves, flow control or even port pressure relief (See P.6 in accessories catalogue). This circuit design also utilize a cartridge check and adjustable relief valve. The magnetic four button remote control comes with 6 meters of cable. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick. Valves can be stacked vertically as per above picture, or horizontally over the DC motor.

OPTIONS:

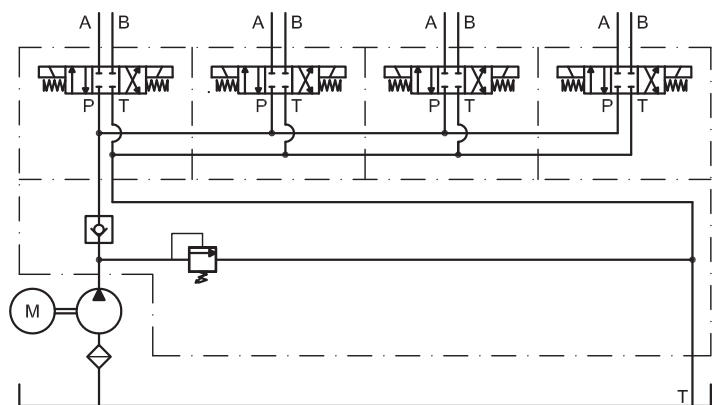
- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- **Valve Mounting:** Vertical or Horizontal



MODEL 24



MODEL 36



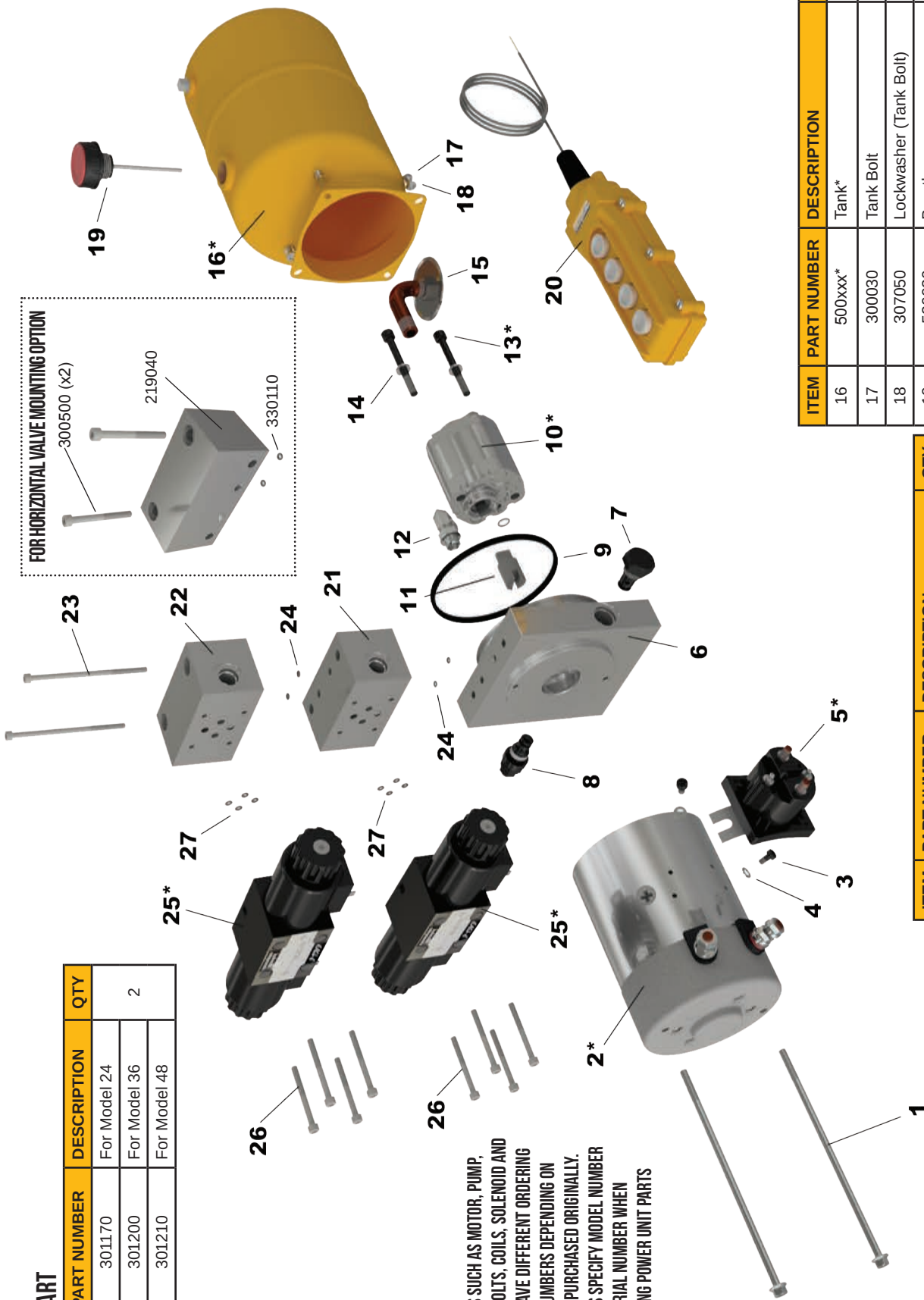
MODEL 48

BOLT CHART

ITEM	PART NUMBER	DESCRIPTION	QTY
23	301170	For Model 24	2
	301200	For Model 36	
	301210	For Model 48	

MODEL 24,36,48

* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS



ITEM	PART NUMBER	DESCRIPTION	QTY
16	500xxx*	Tank*	1
17	300030	Tank Bolt	4
18	307050	Lockwasher (Tank Bolt)	4
19	520030	Breather	1
20	630170	Remote Control	1
21	219020	Block	1
22	219030	Block	1
23	*See Bolt Chart	Block Bolt	2
24	330110	Block O-Ring	4
25	122xxx*	Solenoid Valve D03*	2
26	300500	Valve Bolt	8
27	330110	Valve O-Ring	8

ITEM	PART NUMBER	DESCRIPTION	QTY
8	111000	Relief Valve	1
9	330100	Tank O-Ring	1
10	400xxx*	Pump*	1
11	421000	Motor Coupler	1
12	310020	Block Elbow 90°	1
13	301xxx*	Pump Bolt*	2
14	307080	Lockwasher (Pump Bolt)	2
15	150012	Screen Filter Suction Elbow	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210150	Block	1
7	110100	Checkvalve	1

EXPLODED VIEW

POWER UNIT WITH SINGLE AND/OR DOUBLE ACTING CIRCUITS

MODEL 28,42,56



MODEL 28 HORIZONTAL

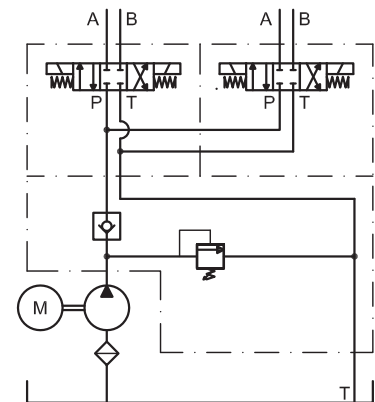


MODEL 42 VERTICAL

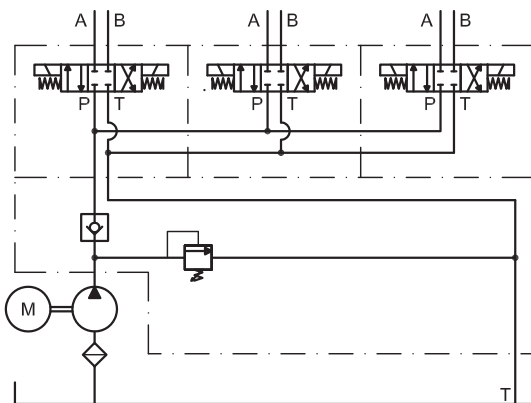
This power unit has a double acting circuit with SAE#6 (9/16-18) A & B ports. 3 position/4 way modular valve (D02) that can be stacked and combined with other modular options such as piloted check valves, flow control or even port pressure relief (See P.6 in accessories catalogue). This circuit design also utilize a cartridge check and adjustable relief valve. The magnetic four button remote control comes with 6 meters of cable. The gear pump is equipped with a suction screen attach to a 90° elbow inside the tank which comes with a 3/4" NPT breather/dipstick. Valves can be stacked vertically as per above picture, or horizontally over the DC motor.

OPTIONS:

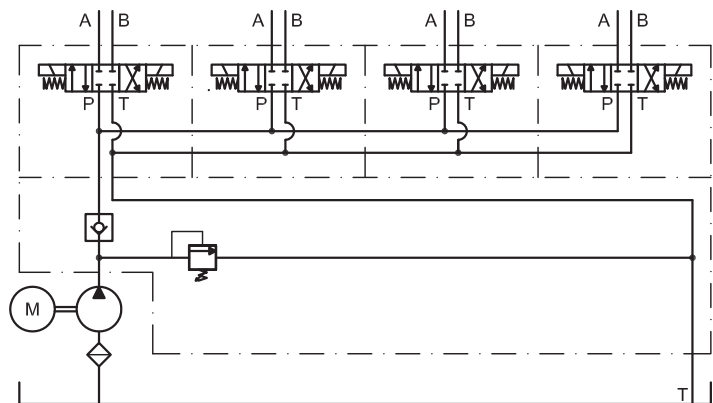
- **Motor:** DC 12 & 24v, or AC 115/230V, single phase or AC 230/460/575V three phase
- **Tank:** From 1.7 liters to 23.5 liters. Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- **Valve Mounting:** Vertical or Horizontal



MODEL 28



MODEL 42

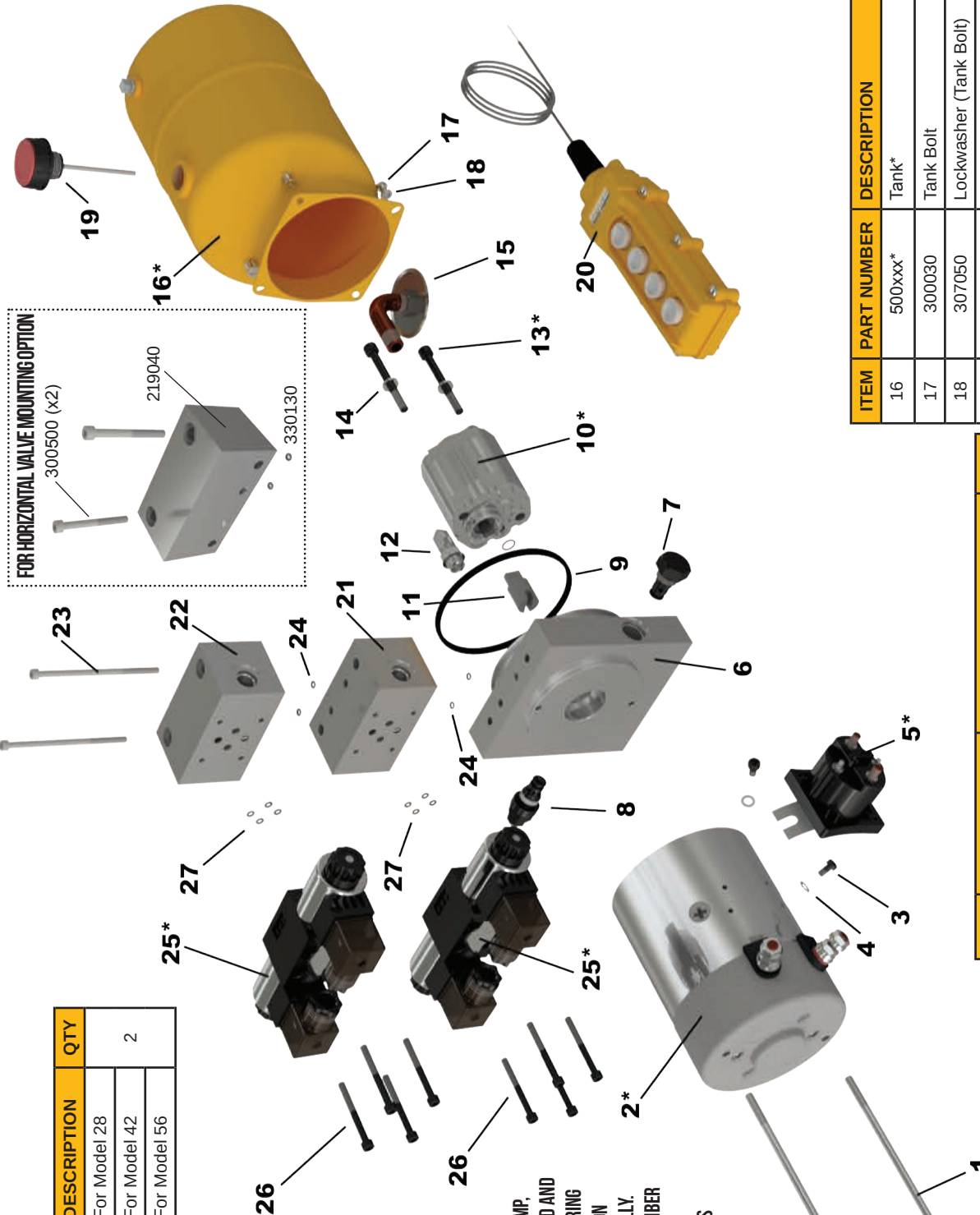


MODEL 56

BOLT CHART

ITEM	PART NUMBER	DESCRIPTION	QTY
23	301170	For Model 28	2
	301200	For Model 42	
	301210	For Model 56	

MODEL 28,42,56



* ITEMS SUCH AS MOTOR, PUMP, PUMP BOLTS, COILS, SOLENOID AND TANK HAVE DIFFERENT ORDERING PART NUMBERS DEPENDING ON OPTION PURCHASED ORIGINALLY. ALWAYS SPECIFY MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING POWER UNIT PARTS

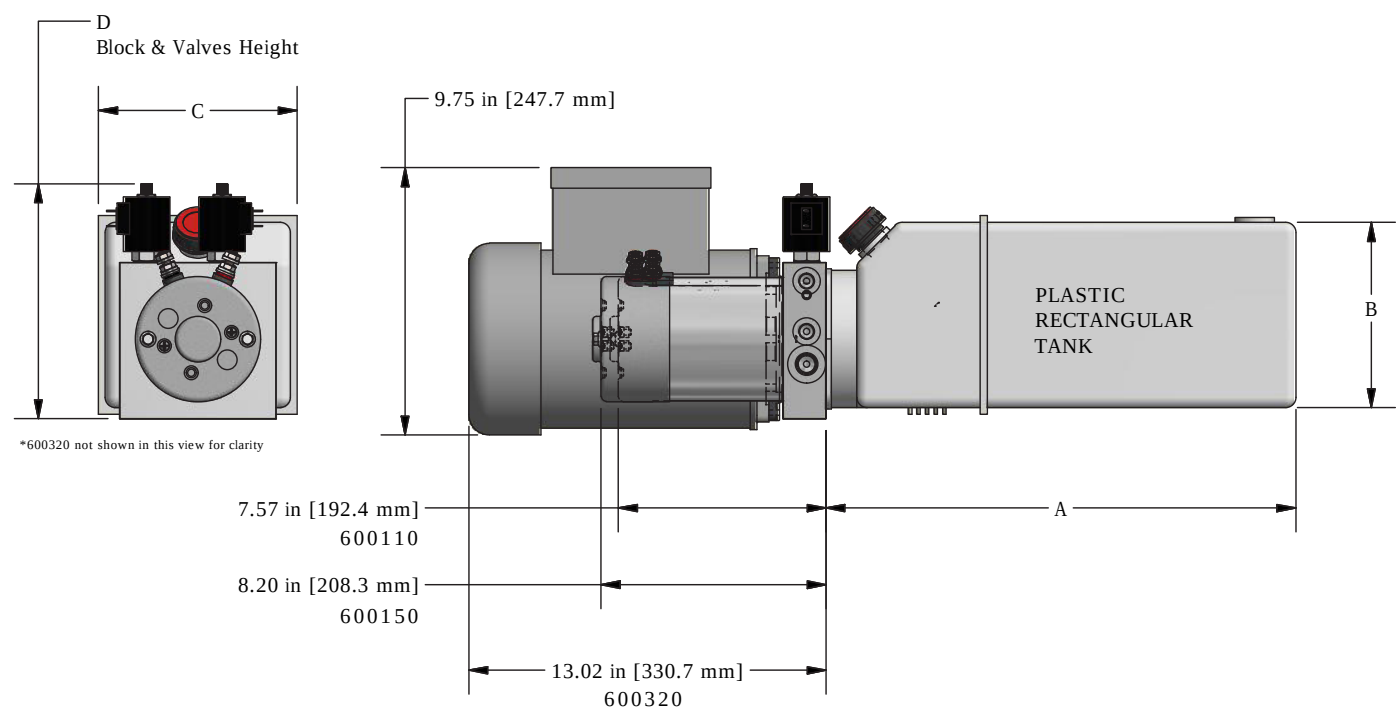
ITEM	PART NUMBER	DESCRIPTION	QTY
8	111000	Relief Valve	1
9	330100	Tank O-Ring	1
10	400xxx*	Pump*	1
11	421000	Motor Coupler	1
12	310020	Block Elbow 90°	1
13	301xxx*	Pump Bolt*	2
14	307050	Lockwasher (Pump Bolt)	2
15	150012	Screen Filter Suction Elbow	1

ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210150	Block	1
7	110100	Checkvalve	1

ITEM	PART NUMBER	DESCRIPTION	QTY
16	500xxx*	Tank*	1
17	300030	Tank Bolt	4
18	307050	Lockwasher (Tank Bolt)	4
19	520030	Breather	1
20	630170	Remote Control	1
21	219050	Block	1
22	219060	Block	1
23	*See Bolt Chart	Block Bolt	2
24	330130	Block O-Ring	4
25	121xxx*	Solenoid Valve D02*	2
26	300500	Valve Bolt	8
27	330130	Valve O-Ring	8



PLASTIC RECTANGULAR TANK DIMENSIONS



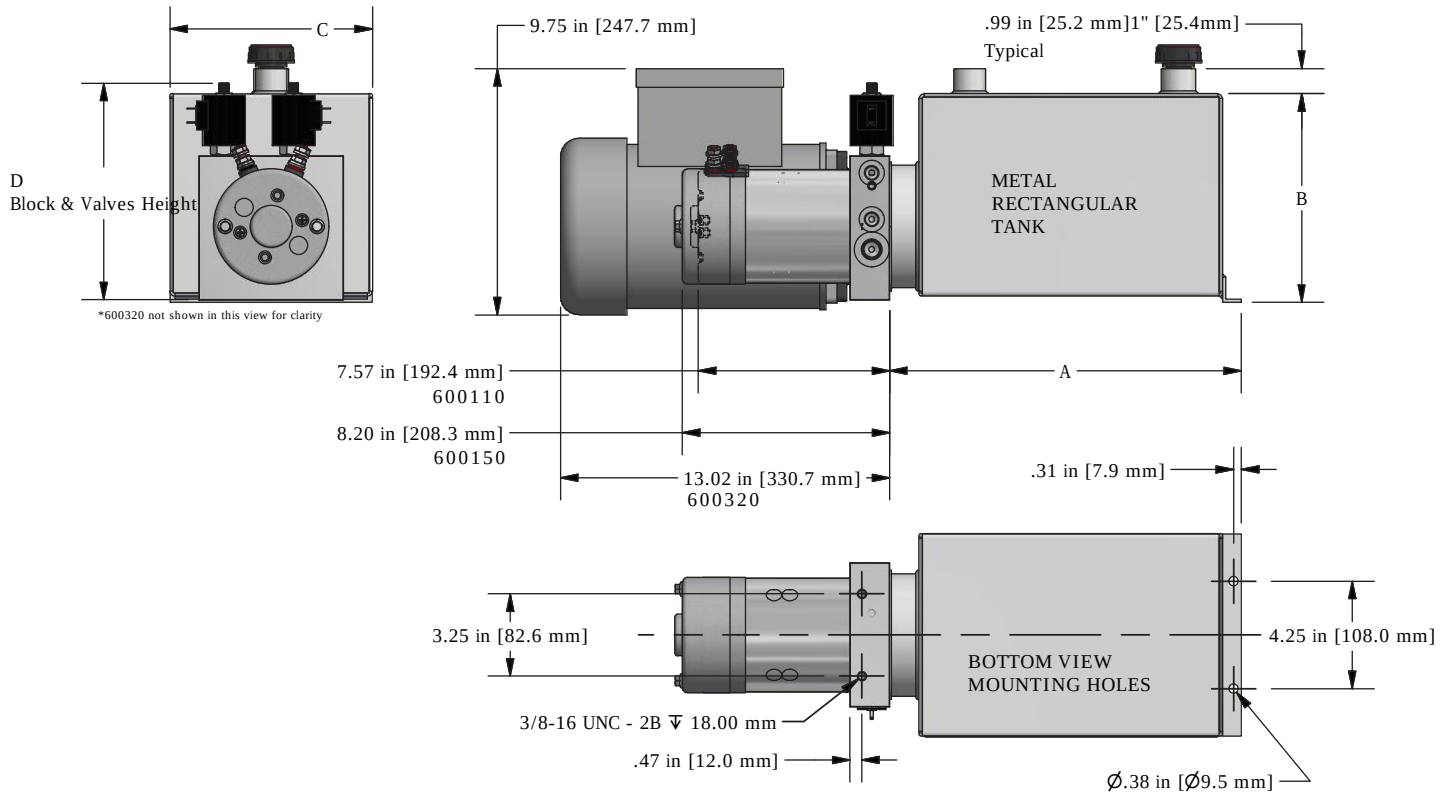
PART NUMBER	VOLUME CAPACITY			DIMENSIONS		
	LITER	US GALLONS	QUARTS	A (LENGTH)	B (HEIGHT)	C (WIDTH)
510020 [B]	4.0	1.06	4.23	7.88" [200.0mm]	6.75" [171.5mm]	6.75" [171.5mm]
510040 [D]	6.0	1.59	6.34	13.18" [335.0mm]		
510050 [F]	8.0	2.12	8.45	17.32" [440.0mm]		
510060 [G]	10.0	2.65	10.57	20.75" [527.0mm]	9.00" [228.6mm]	9.44" [239.7mm]
510080 [K]	15.1	4.00	16	13.64" [346.4mm]		

BLOCK AND VALVES HEIGHT

MODEL	BLOCK & VALVES HEIGHT "D"
01	5.500" [140 mm]
02	8.188" [208 mm]
03	14.750" [375 mm]
06	10.125" [257 mm]
10	8.125" [206 mm]
11	8.125" [206 mm]
12	7.500" [190 mm]
13	10.375" [264 mm]

MODEL	BLOCK & VALVES HEIGHT "D"
15	10.750" [273 mm]
16	9.625" [245 mm]
24	9.500" [241 mm]
36	11.500" [292 mm]
48	13.500" [343 mm]

METAL RECTANGULAR TANK DIMENSIONS



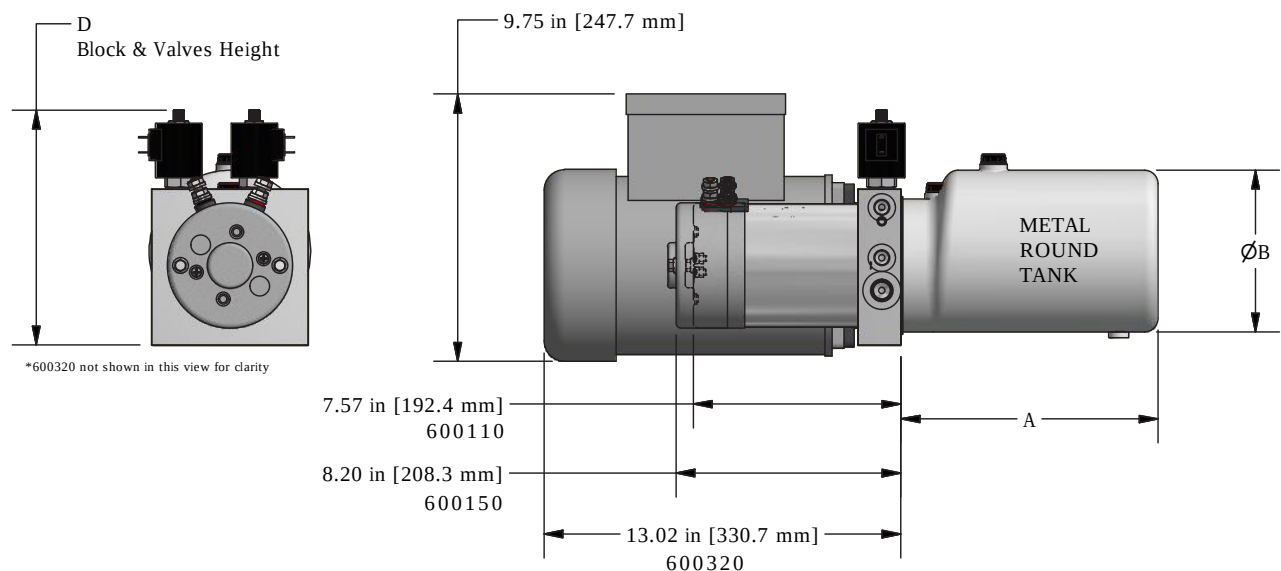
PART NUMBER	VOLUME CAPACITY			DIMENSIONS		
	LITER	US GALLONS	QUARTS	A (LENGTH)	B (HEIGHT)	C (WIDTH)
500110 [V]	11.34	3.0	12.0	13.92" [353.6mm]	8.25" [209.6mm]	8.00" [203.2mm]
500120 [L]	15.12	4.0	16.0	13.92" [353.6mm]	10.25" [260.4mm]	8.00" [203.2mm]
500130 [W]	18.90	5.0	20.0	22.92" [582.2mm]	8.25" [209.6mm]	8.00" [203.2mm]
500140 [X]	23.60	6.24	25.0	13.92" [353.6mm]	13.75" [349.25mm]	10.5" [266.7mm]
500160 [Y]	26.50	7.0	28.0	13.92" [353.6mm]	12.75" [323.85mm]	13.00" [330.2mm]
500150 [Z]	23.60	6.25	25.0	20.92" [531.4mm]	5.625" [142.9mm]	16.00" [406.4mm]
500180 [E]	30.20	8.0	32.0	22.92" [582.2mm]	13.25" [336.6mm]	8.00" [203.2mm]
500190 [A]	37.80	10.0	40.0	13.50" [342.9 mm]	13.50" [342.9 mm]	-

BLOCK AND VALVES HEIGHT

MODEL	BLOCK & VALVES HEIGHT "D"
01	5.500" [140 mm]
02	8.188" [208 mm]
03	14.750" [375 mm]
06	10.125" [257 mm]
10	8.125" [206 mm]
11	8.125" [206 mm]
12	7.500" [190 mm]
13	10.375" [264 mm]

MODEL	BLOCK & VALVES HEIGHT "D"
15	10.750" [273 mm]
16	9.625" [245 mm]
24	9.500" [241 mm]
36	11.500" [292 mm]
48	13.500" [343 mm]

METAL ROUND TANK DIMENSIONS



PART NUMBER	VOLUME CAPACITY			DIMENSIONS	
	LITER	US GALLONS	QUARTS	A (LENGTH)	B (HEIGHT)
500010 [M]	1.7	0.45	1.80	8.19" [208.0mm]	Ø4.85" [123.1mm]
500020 [N]	2.8	0.74	2.96	9.38" [238.1mm]	Ø5.90" [149.9mm]
500030 [O]	3.9	1.03	4.12	8.88" [225.4mm]	Ø6.96" [176.8mm]
500040 [P]	5.0	1.32	5.28	10.38" [263.5mm]	
500060 [Q]	6.0	1.58	6.32	11.38" [288.9mm]	
500070 [R]	8.0	2.11	8.44	14.50" [368.3mm]	
500080 [S]	10.0	2.64	10.56	16.99" [431.5mm]	
500090 [T]	12.0	3.17	12.68	21.24" [539.5mm]	
500100 [U]	14.0	3.70	14.8	23.75" [603.3mm]	

BLOCK AND VALVES HEIGHT

MODEL	BLOCK & VALVES HEIGHT "D"
01	5.500" [140 mm]
02	8.188" [208 mm]
03	14.750" [375 mm]
06	10.125" [257 mm]
10	8.125" [206 mm]
11	8.125" [206 mm]
12	7.500" [190 mm]
13	10.375" [264 mm]

MODEL	BLOCK & VALVES HEIGHT "D"
15	10.750" [273 mm]
16	9.625" [245 mm]
24	9.500" [241 mm]
36	11.500" [292 mm]
48	13.500" [343 mm]

MOTOR PERFORMANCE CHART



Exceeds Amperage Available for Testing
Non-Conducted Test
Exceeds Maximum Motor Amperage (24A)

MOTOR 12V (1.6KW OR 2.14HP) 2500 RPM -COMPOUND WOUND, 4 POLES - 600110

Pressure	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	3.75	0.99	39	4.75	1.25	48	5.8	1.53	80	9.5	2.51	52	10.3	2.71	54	12.3	3.24	73	16.1	4.25	79	17.5	4.62	79.9	20	5.28	122
250	3.5	0.92	49	4.4	1.16	58	5.4	1.43	98	8.6	2.27	81	9	2.38	86	11	2.91	102	13.2	3.49	129	15	3.96	122	17	4.49	155
500	3.3	0.87	54	4.2	1.11	65	5.1	1.35	107	7.1	1.88	97	8.5	2.25	97	10.3	2.71	114	11	2.91	148	14.5	3.83	137	15.9	4.2	178
750	3.25	0.86	61	3.9	1.03	74	4.6	1.22	122	6.6	1.74	111	8	2.11	113	9.5	2.51	136	9.5	2.51	189	12.3	3.25	183	14	3.7	240
1000	3.2	0.85	68	3.7	0.98	80	4.25	1.12	133	6.25	1.65	133	7.5	1.98	132	8.75	2.31	158	8.1	2.14	229	11	2.91	222	12	3.17	279
1250	3	0.79	72	3.6	0.95	92	4	1.06	149	6.1	1.61	151	7	1.85	145	7.25	1.92	178	6.9	1.82	254	9.1	2.4	264	6.2	1.64	340
1500	2.9	0.77	80	3.5	0.93	99	4	1.06	158	5.6	1.48	166	6.5	1.72	169	6.75	1.78	200	6	1.59	289	8.3	2.19	302	4.2	1.11	386
1750	2.8	0.74	88	3.5	0.93	108	3.65	0.96	171	5.25	1.39	182	6.1	1.61	184	6.5	1.72	217	5.5	1.45	320	5.2	1.37	347			
2000	2.75	0.73	93	3.3	0.87	118	3.6	0.95	182	5.1	1.35	193	5.8	1.53	198	6.25	1.65	240	4.5	1.19	359	2.6	0.69	380			
2250	2.75	0.73	98	3.2	0.85	128	3.5	0.93	201	4.5	1.19	212	5.5	1.45	210	6	1.59	260	4.1	1.08	412						
2500	2.6	0.69	106	3	0.79	136	3.4	0.9	223	4.25	1.12	220	5.25	1.39	250	5.5	1.45	280	3.4	0.9	468						
2750	2.5	0.66	110	2.6	0.69	146	3.2	0.85	224	4.1	1.08	230	5	1.32	267	5.15	1.36	300	3.7	0.98	476						
3000	2.4	0.63	117	1.4	0.37	149	3	0.79	237	3.9	1.03	251	3.75	0.99	282	5	1.32	320	3.2	0.85	536						

MOTOR 12V LONG DUTY BLACK (1.6KW OR 2.14HP) 2500 RPM - SERIES WOUND, 4 POLES - 600120

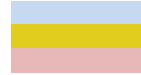
Pressure	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	5.8	1.53	78	7.6	2.01	85	11.2	2.96	94	13	3.43	101	13	3.43	107	14	3.7	115	15.1	3.99	117	21	5.55	128	22.5	5.94	158
250	5.1	1.35	89	6.5	1.72	96	9.5	2.51	108	11	2.91	118	11.3	2.97	126	12.2	3.21	142	14.6	3.86	160	17	4.49	158	19	5.02	192
500	4.75	1.25	94	6.15	1.62	101	9	2.38	115	10	2.64	127	10.5	2.77	139	11.8	3.1	150	14	3.7	174	15.2	4.02	176	18	4.76	203
750	4.5	1.19	100	5.8	1.53	108	7.6	2.01	125	9	2.38	141	9.75	2.58	171	11	2.91	168	12.5	3.3	196	13.5	3.57	206	16	4.23	239
1000	4.25	1.12	107	5.3	1.4	116	7	1.85	139	7.6	2.01	156	9	2.38	163	10	2.64	190	11	2.91	217	12.8	3.38	243	14	3.7	295
1250	4.15	1.1	113	5.1	1.35	126	6.3	1.66	154	7.1	1.88	167	7.6	2.01	183	9	2.38	205	10.3	2.71	244	10	2.64	280	11.8	3.12	346
1500	4	1.06	119	4.75	1.25	133	6.1	1.61	163	6.6	1.74	180	7.1	1.88	196	8.75	2.31	220	9.75	2.58	268	9	2.38	305	9.9	2.62	375
1750	3.85	1.02	125	4.6	1.22	140	5.9	1.56	172	6.3	1.66	191	6.5	1.72	213	8	2.11	236	9.25	2.44	290	6.8	1.8	336	7	1.85	433
2000	3.75	0.99	134	4.5	1.19	152	5.5	1.45	185	6	1.59	205	6.3	1.66	229	7.25	1.92	256	9	2.38	314	6.8	1.8	364	5.8	1.53	461
2250	3.75	0.99	137	4.1	1.08	156	5	1.32	188	5.75	1.52	217	6	1.59	244	6.7	1.77	273	8	2.11	334	5.2	1.37	396			
2500	3.6	0.95	142	3.75	0.99	161	4.75	1.25	202	5.3	1.4	230	5.75	1.52	253	6.25	1.65	292	7.25	1.92	356	5	1.32	437			
2750	3.4	0.9	147	3.5	0.92	165	4.5	1.19	207	5	1.32	244	5.3	1.4	271	6.1	1.61	305	6.85	1.81	373						
3000	3.15	0.83	155	3.25	0.86	176	4.25	1.12	227	4.75	1.25	257	5	1.32	287	5.6	1.48	327	6	1.59	400						

MOTOR 12V (2.0KW OR 2.68HP) 2500 RPM - HEAVY-DUTY HD - 600150

Pressure	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	5.8	1.53	76	6.45	1.7	78	9	2.38	108	12.3	3.24	99	13.5	3.57	128	14.3	3.76	116	16.5	4.36	164	20.5	5.42	102	24	6.34	153
250	5.2	1.37	88	5.85	1.55	93	8.5	2.25	116	10.3	2.71	114	12	3.17	145	12.8	3.37	140	14	3.7	175	16.7	4.41	104	20	5.28	184
500	4.8	1.27	92	5.6	1.48	97	8	2.11	124	10	2.64	126	10	2.64	169	12.3	3.24	154	13	3.43	193	16	4.23	110	18	4.76	215
750	4.5	1.19	97	5.5	1.45	102	6.9	1.82	142	9	2.38	141	9	2.38	194	11	2.91	172	11.3	2.99	227	14	3.7	133	16.5	4.36	242
1000	4.25	1.12	104	5	1.32	112	6.5	1.72	150	7.6	2.01	154	8.2	2.17	199	10.3	2.71	190	10	2.64	251	12.2	3.22	156	14.5	3.83	285
1250	3.9	1.03	110	4.75	1.25	121	6.2	1.64	163	7	1.85	167	7.5	1.98	227	9	2.38	207	9	2.38	277	10	2.64	186	12.5	3.3	335
1500	3.75	0.99	115	4.5	1.19	131	5.8	1.53	175	6.6	1.74	181	6.7	1.77	228	8.75	2.31	225	8	2.11	303	9.9	2.62	203	11	2.91	385
1750	3.6	0.95	120	4.3	1.14	138	5.4	1.43	186	6.25	1.65	191	6.5	1.72	242	8.25	2.18	240	7.8	2.06	326	8	2.11	341			
2000	3.5	0.92	128	4.25	1.12	146	5.2	1.37	200	5.75	1.52	205	6.2	1.64	258	7	1.85	255	7	1.85	360	6.2	1.64	397			
2250	3.25	0.86	136	4	1.06	151	4.7	1.24	211	5.65	1.49	216	5.8	1.53	278	6.6	1.74	276	6.5	1.72	378	5	1.32	447			
2500	3.15	0.83	140	3.75	0.99	158	4.6	1.21	220	5.5	1.45	230	5	1.32	310	6.25	1.65	294	5.8	1.53	420						
2750	3	0.79	146	3.5	0.92	165	4.4	1.16	236	5	1.32	240	5	1.32	316	6.1	1.16	308	5.5	1.45	445						
3000	3	0.79	150	3.25	0.86	175	4.3	1.14	251	4.6	1.22	257	5	1.32	333	6	1.59	320	5.5	1.45	458						

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.

MOTOR PERFORMANCE CHART



Exceeds Amperage Available for Testing
Non-Conducted Test
Exceeds Maximum Motor Amperage (24A)

MOTOR 24V (2.0KW OR 2.68HP) 2500 RPM - 600200

	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	4.25	1.12	30	5.5	1.45	32	7.75	2.05	36	9	2.38	38	10.5	2.77	42	15	3.96	40	13	3.43	58	20	5.28	58.6	23.5	6.21	80.6
250	3.65	0.96	38	4.5	1.19	41	6.5	1.72	48	7	1.85	55	9	2.38	58	14	3.7	50	10.3	2.71	84	16.9	4.46	80.7	21	5.55	102
500	3.4	0.9	40	4.25	1.12	44	6.15	1.62	51	6.75	1.78	60	8	2.11	65	12.5	3.3	59	10	2.64	91	16.5	4.36	96.2	20	5.28	109
750	3.25	0.86	43	4	1.06	48	5.75	1.52	58	6.5	1.72	68	7	1.85	74	11	2.91	78	9.5	2.51	100	16	4.23	102	18	4.76	132
1000	3	0.79	47	3.75	0.99	52	5.35	1.41	63	6.15	1.62	74	6.5	1.72	82	9.5	2.51	96	8.25	2.18	119	14.2	3.75	102	16	4.23	162
1250	2.8	0.74	51	3.5	0.92	57	5	1.32	70	5.6	1.48	83	5.8	1.53	92	8.5	2.25	112	7.25	1.85	134	11.2	2.96	104	14	3.7	195
1500	2.75	0.73	53	3.3	0.87	60	4.6	1.21	75	5.2	1.37	92	5.3	1.4	104	8	2.11	130	6.75	1.78	144	11	2.91	126	13.5	3.57	218
1750	2.6	0.69	56	3.25	0.86	65	4.35	1.15	84	4.75	1.25	100	4.9	1.29	113	7	1.85	146	6.25	1.65	158	10	2.64	189	9	2.38	247
2000	2.5	0.66	61	3	0.79	68	4.25	1.12	88	4.5	1.19	108	4.6	1.22	121	7	1.85	166	6	1.59	171	9.8	2.59	205			
2250	2.45	0.65	64	3	0.79	73	4	1.06	95	4.25	1.12	113	4.5	1.19	127	6.5	1.72	168	5.5	1.45	184	7.2	1.9	246			
2500	2.4	0.63	66	2.8	0.74	75	3.75	0.99	100	4	1.06	122	4.4	1.16	136	6.5	1.72	187	5.25	1.39	190						
2750	2.25	0.59	71	2.6	0.69	81	3.7	0.98	105	3.75	0.99	133	4.3	1.14	140	4.9	1.29	207	5.1	1.35	210						
3000	2.25	0.59	75	2.5	0.66	86	3.55	0.94	112	3.5	0.92	139	4.2	1.11	153	4.5	1.19	220	5	1.32	219						

MOTOR 115V (2HP) (3480 RPM) - 600320



	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	3.2	0.85	4	3.9	1.03	4	6.05	1.6	4	8	2.11	5	9.25	2.44	5	12	3.17	6	15.2	4.02	10	18.9	4.99	9	24	6.34	16.4
250	2.9	0.77	4	3.9	1.03	4	5.8	1.53	6	8	2.11	7	9	2.38	8	12	3.17	9	15	3.96	12	16	4.23	13.4			
500	2.9	0.77	5	3.9	1.03	5	5.6	1.48	7	8	2.11	9	9	2.38	9	11.9	3.14	12	15	3.95	15	12.5	3.3	16.6			
750	2.85	0.75	5	3.8	1	6	5.5	1.45	9	8	2.11	11	9	2.38	13	11.9	3.14	15	14.5	3.8	20	8	2.11	20.6			
1000	2.8	0.74	7	3.75	0.99	8	5.25	1.39	10	8	2.11	13	9	2.38	15	11.5	3.04	19	14.3	3.76	26						
1250	2.75	0.73	7	3.6	0.95	8	5.25	1.39	12	8	2.11	15	9	2.38	17	11.5	3.04	23									
1500	2.7	0.71	9	3.55	0.94	10	5	1.32	14	8	2.11	18	9	2.38	21	11	2.91	25									
1750	2.5	0.66	9	3.5	0.92	10	5	1.32	15	8	2.11	20	9	2.38	23												
2000	2.4	0.63	10	3.45	0.91	12	5	1.32	17	8	2.11	23															
2250	2.4	0.63	10	3.35	0.88	12	5	1.32	19	7.75	2.05	25															
2500	2.3	0.61	12	3.25	0.86	14	4.95	1.31	21																		
2750	2.3	0.61	12	3.15	0.83	15	4.8	1.27	24																		
3000	2.15	0.57	13	3	0.79	17																					

MOTOR 115V (3HP) (3480 RPM) - 600340



	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0							5.95	1.57	7	8.1	2.14	7	9.2	2.43	7	12	3.17	9	15	3.96	12	19	5.02	10.7	25.1	6.63	19.4
250							5.75	1.52	8	8	2.11	8	9.2	2.43	9	12	3.17	11	15	3.96	14	19	5.02	13.1	25	6.6	21.4
500							5.5	1.45	9	8	2.11	10	9.2	2.43	11	12	3.17	13	15	3.96	17	18.5	4.89	18.5	24.8	6.55	30
750							5.45	1.44	11	8	2.11	12	9.2	2.43	13	12	3.17	16	14.9	3.94	21	17.6	4.65	25.1			
1000							5.45	1.44	12	8	2.11	15	9.2	2.43	15	12	3.17	19	14.9	3.94	25	17.4	4.6	31.8			
1250							5.45	1.44	14	8	2.11	16	9	2.38	18	12	3.17	22									
1500							5.45	1.44	15	8	2.11	19	9	2.38	21	11.8	3.12	25									
1750							5.45	1.44	17	8	2.11	20	9	2.38	24												
2000							5.45	1.44	18	8	2.11	23	9	2.38	25												
2250							5.45	1.44	20	8	2.11	24															
2500							5.25	1.39	21																		
2750							5.15	1.36	22																		
3000							5.15	1.36	24																		

All numbers given are nominal values and should be used for reference only.
All product specifications are subject to change without prior notice.

MOTOR PERFORMANCE CHART



Exceeds Amperage Available for Testing
Non-Conducted Test
Exceeds Maximum Motor Amperage (24A)



MOTOR 230V (2HP) (3480 RPM) - 600320

	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	3.2	0.85	2.5	3.75	0.99	2	6	1.59	3	7.75	2.05	2	9	2.38	3	12	3.17	3	14.5	3.8	4	18.9	4.99	4.6	24	6.34	8.9
250	3	0.79	4	3.6	0.95	3	6	1.59	4	7.75	2.05	4	9	2.38	5	11	2.91	5	14.3	3.76	7	16	4.23	6.7			
500	2.9	0.77	4	3.55	0.94	4	6	1.59	4	7.75	2.05	5	9	2.38	5.5	11	2.91	6	14	3.7	8	13	3.43	7.8			
750	2.9	0.77	4	3.5	0.92	4	5.9	1.56	5	7.75	2.05	6	8.9	2.35	7	11	2.91	8	13.5	3.57	10	6.5	1.72	9.8			
1000	2.8	0.74	5	3.4	0.9	5	5.8	1.53	6	7.5	1.98	7	8.75	2.31	8	11	2.91	11									
1250	2.8	0.74	6	3.3	0.87	6	5.75	1.52	7	7.5	1.98	8	8.5	2.25	9	10.5	2.77	11.5									
1500	2.75	0.73	6	3.25	0.86	6	5.5	1.45	8	7.5	1.98	9	8.5	2.25	11												
1750	2.75	0.73	7	3.2	0.85	7	5.4	1.43	8	7.25	1.92	10															
2000	2.75	0.73	8	3.15	0.83	8	5.3	1.4	9	6.75	1.78	12															
2250	2.75	0.73	8	3.1	0.82	9	5.25	1.39	10																		
2500	2.75	0.73	9	3.1	0.82	9	5.15	1.36	11																		
2750	2.75	0.73	9	3	0.79	10																					
3000	2.75	0.73	10	3	0.79	10																					

MOTOR 230V (3HP) (3480 RPM) - 600340

	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	3	0.79	2.9	3.5	0.92	2.8	5.4	1.4	2.7	7.1	1.88	2.9	8.5	2.25	3	11	2.91	3.3	15	3.96	3.7	19	5.02	5.7	25.3	6.88	9.9
250	3	0.79	3.6	3.4	0.9	4	5.2	1.37	4	7.1	1.88	4.4	8.5	2.25	4.5	10.5	2.77	5.6	14.8	3.91	6.4	18.9	4.99	7	25.3	6.88	10.8
500	3	0.79	4.3	3.3	0.87	4.6	5.2	1.37	4.3	7.1	1.88	5.1	8.5	2.25	5.4	10.5	2.77	6.4	14.7	3.88	7.9	18.5	4.89	9.4	25	6.6	14.7
750	2.9	0.77	4.7	3.2	0.85	5.2	5.2	1.37	5	7.1	1.88	5.7	8.5	2.25	6.6	10.5	2.77	8.1	14.6	3.86	9.5	18	4.76	12.4	19.5	5.15	20
1000	2.9	0.77	5.6	3.2	0.85	6	5.2	1.37	5.8	7	1.85	6.8	8.4	2.22	7.8	10.5	2.77	9.6	14.6	3.86	11.4	17.9	4.73	15.5			
1250	2.8	0.74	6	3.2	0.85	6.6	5.1	1.35	6.8	7	1.85	7.7	8.1	2.14	8.6	10.2	2.69	10.5	14.6	3.86	13.6	16.8	4.44	19.3			
1500	2.7	0.71	6.6	3.1	0.82	7.1	5.1	1.35	7.1	7	1.85	8.6	8.1	2.14	10	10.2	2.69	12.4	14.6	3.86	15.9						
1750	2.5	0.66	7.4	3.1	0.82	7.9	5.1	1.35	7.8	7	1.85	9.5	8	2.11	11.5	10.1	2.67	14.5	13	3.43	18.8						
2000	2.5	0.66	7.8	3	0.79	8.3	5.1	1.35	8.8	7	1.85	10.6	8	2.11	12.9	10	2.64	16.2	13	3.43	23						
2250	2.4	0.63	8.4	3	0.79	8.9	5.1	1.35	9.3	7	1.85	11.6	8	2.11	14.3	10	2.64	18.6									
2500	2.3	0.61	9.1	3	0.79	9.5	5.1	1.35	10	7	1.85	13	8	2.11	15.5	10	2.64	21									
2750	2.2	0.58	9.8	3	0.79	10.7	5.1	1.35	10.8	7	1.85	14	8	2.11	17.3												
3000	2	0.53	10.4	2.9	0.77	11.5	5.1	1.35	11.8	7	1.85	15.4	7.8	2.06	20												

MOTOR 575V (3HP) (3480 RPM) *AMP DRAW ON ONE PHASE - 600350

	400010 Pump .8cc			400020 Pump 1.0cc			400040 Pump 1.6cc			400050 Pump 2.1cc			400060 Pump 2.5cc			400080 Pump 3.2cc			400090 Pump 4.2cc			400100 Pump 5.8cc			400110 Pump 8.0cc		
Pressure	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP	L/MIN	G/MIN	AMP
0	3.2	0.85	2.5	3.3	0.87	2.4	5.5	1.45	2.4	7.25	1.92	2.4	9	2.38	2.5	11	2.91	2.5	14.5	3.83	2.6	19.1	5.05	2.8	25.3	6.68	3.4
250	3.1	0.82	2.6	3.3	0.87	2.5	5.3	1.4	2.5	7.25	1.92	2.5	9	2.38	2.6	11	2.91	2.6	14.5	3.83	2.8	19.1	5.05	2.9	25.1	6.63	3.5
500	3	0.79	2.6	3.3	0.87	2.5	5.3	1.4	2.5	7.25	1.92	2.6	9	2.38	2.7	11	2.91	2.7	14.5	3.83	2.9	18.9	4.99	3.2	25	6.6	4.1
750	3	0.79	2.6	3.3	0.87	2.6	5.3	1.4	2.5	7.25	1.92	2.6	8.7	2.3	2.8	11	2.91	2.9	14	3.7	3.2	18	4.76	3.6			
1000	3	0.79	2.7	3.3	0.87	2.7	5.3	1.4	0.26	7.1	1.88	2.7	8.7	2.3	2.9	11	2.91	3.1	14	3.7	3.6						
1250	2.9	0.77	2.7	3.2	0.85	2.7	5.2	1.37	2.7	7.1	1.88	2.8	8.7	2.3	3	11	291	3.4	14	3.7	4.2						
1500	2.8	0.74	2.7	3	0.79	2.8	5.2	1.37	2.8	7	1.85	3	8.5	2.25	3.2	11	2.91	3.5	14	3.7	4.4						
1750	2.7	0.71	2.8	3	0.79	2.8	5.2	1.37	2.8	7	1.85	3.2	8.5	2.25	3.4	11	2.91	3.9	14	3.7	4.9						
2000	2.6	0.69	2.8	3	0.79	2.9	5.1	1.35	3	7	1.85	3.3	8.5	2.25	3.6	10.5	2.77	4.4	13.5	3.57	5.4						
2250	2.5	0.66	2.9	3	0.79	2.9	5.1	1.35	3.1	7	1.85	3.6	8.2	2.17	3.9	10.5	277	4.6									
2500	2.5	0.66	3	3	0.79	3.2	5.1	1.35	3.2	7	1.85	3.7	8.2	2.17	4.2	10.5	2.77	5									

COMPONENTS



DC ELECTRIC MOTOR FOR POWER UNITS

- ▶ 600110 - 12v 1.6 Kw/2 HP standard
- ▶ 600120 - 12v 1.6 Kw/2 HP long duty powder coated black
- ▶ 600150 - 12v 2 Kw/2.6 HP heavy duty
- ▶ 600210 - 24v 2 Kw/2.6 HP heavy duty



AC ELECTRIC MOTOR FOR POWER UNITS

- ▶ 600320 - 115/230v/2HP (3480 RPM) 1 phase - Intermittent periodic duty (S3)
- ▶ 600340 - 115/230v/3HP (3480 RPM) 1 phase - Intermittent periodic duty (S3)
- ▶ 600350 - 230/460/575v/3HP (3480 RPM) 3 phases - Intermittent periodic duty (S3)



POWER UNIT SOLENOID

- ▶ 640040 - 12v
- ▶ 640050 - 24v



POWER UNIT GEAR PUMP

- | | | |
|-------------------|-------------------|-------------------|
| ▶ 400010 - 0.8 cc | ▶ 400250 - 2.5 cc | ▶ 400800 - 8.0 cc |
| ▶ 400020 - 1.0 cc | ▶ 400320 - 3.2 cc | |
| ▶ 400040 - 1.6 cc | ▶ 400420 - 4.2 cc | |
| ▶ 400050 - 2.1 cc | ▶ 400580 - 5.8 cc | |



SUCTION STRAINER

- ▶ 150012 - Suction Strainer with 90° Elbow, 3/8" BSPP



CARTRIDGE VALVE 1 WAY, 2 POSITIONS WITH MANUAL OVERRIDE

- | | |
|-----------------------------|----------------------|
| ▶ 115200 - Valve & Coil 12v | ▶ 641030 - Coil 110v |
| ▶ 641010 - Coil 12v | ▶ 641040 - Coil 220v |
| ▶ 641020 - Coil 24v | |

COMPONENTS



STEEL ROUND RESERVOIR 1.5 MM THICK

- ▶ 500010 - 1.7 L (0.5 Gal.)
- ▶ 500020 - 2.8 L (0.75 Gal.)
- ▶ 500030 - 3.9 L (1.0 Gal.)
- ▶ 500050 - 5.0 L (1.3 Gal.)
- ▶ 500060 - 6.0 L (1.59 Gal.)
- ▶ 500070 - 8.0 L (2.1 Gal.)
- ▶ 500080 - 10.0 L (2.6 Gal.)
- ▶ 500090 - 12.0 L (3.2 Gal.)
- ▶ 500100 - 14.0 L (3.7 Gal.)



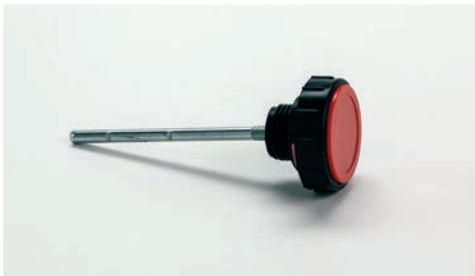
SQUARE PLASTIC RESERVOIR

- ▶ 510020 - 4.0 L (1.0 Gal.)
- ▶ 510030 - 5.0 L (1.32 Gal.)
- ▶ 510040 - 6.0 L (1.58 Gal.)
- ▶ 510050 - 8.0 L (2.11 Gal.)
- ▶ 510060 - 10.0 L (2.64 Gal.)
- ▶ 510080 - 4.0 Gal. (15.1 L)



STEEL SQUARE RESERVOIR 3MM THICK

- ▶ 500110 - 3.0 Gal. (11.34 L)
- ▶ 500120 - 4.0 Gal. (15.12 L)
- ▶ 500130 - 5.0 Gal. (18.9 L)
- ▶ 500140 - 6.4 Gal. (24.2 L)
- ▶ 500160 - 7.0 Gal. (26.5 L)
- ▶ 500180 - 8.0 Gal. (30.2 L)
- ▶ 500190 - 10.0 Gal. (37.8 L)



BREATHER DIP STICK COMBINATION 3" LONG

- ▶ 520060 - 3/8" NPT
- ▶ 520050 - 1/2" NPT
- ▶ 520030 - 3/4" NPT



RESERVOIR LEVEL GAUGE WITH THERMOMETER

- ▶ 520080 - 5" x 5" with 3/8" bolts
Mounting holes 4" apart

FOR RESERVOIR UP TO 1/2" THICK

COMPONENTS



POWER UNIT TOOLBOX

- ▶ 810200 Aluminum Tool Box with stainless locking handle and gas filled cylinder for lid. **Call for Details**
- ▶ 810100 Polymer Tool Box with locking hasp.
36" W X 18.75" D X 17.75" H



HAV EP1424-10

2 BUTTONS REMOTE CONTROL 16/3 (SINGLE ACTING)

- ▶ 630140
 - ▶ 610070 10' EXTENSION FOR 2 BUTTONS REMOTE CONTROL
- REMOTE CONTROL WITH 2 BUTTONS FOR SINGLE ACTING UNIT, MAGNETIC BACK AND PLASTIC SUPPORT.
INCLUDED: 20' OF 16/3 CABLE WITH TERMINALS



HAV EP1424-10

2 BUTTONS REMOTE CONTROL 16/4 (DOUBLE ACTING)

- ▶ 630060
 - ▶ 610070 10' EXTENSION FOR 2 BUTTONS REMOTE CONTROL
- REMOTE CONTROL WITH 2 BUTTONS FOR DOUBLE ACTING UNIT, MAGNETIC BACK AND PLASTIC SUPPORT.
INCLUDED: 20' OF 16/4 CABLE WITH TERMINALS



4 BUTTONS REMOTE CONTROL 16/6 (OPTION 24 UNIT)

- ▶ 630170
- REMOTE CONTROL WITH 4 BUTTONS FOR OPTION 24 UNITS AND MORE.
INCLUDED: 20' OF 16/6 CABLE WITH TERMINALS



WIRELESS REMOTE CONTROL 2 OPTIONS

- ▶ 630020
- WIRELESS REMOTE CONTROL WITH 2 OPTIONS, 20 AMPS FOR OVER 50M, ADAPTABLE TO 12V & 24V



WIRELESS REMOTE CONTROL 4 OPTIONS

- ▶ 630030
- WIRELESS REMOTE CONTROL WITH 4 OPTIONS, 20 AMPS FOR OVER 50M, ADAPTABLE TO 12V & 24V

COMPONENTS



BATTERY TRAY

► 810800

BATTERY TRAY AND HOLDER WITH STRAP 7" x 10.5"



BATTERY CHARGER

► 640120

LOW AMP BATTERY CHARGER 115V to 12V @ 1.5 AMP



SOLAR BATTERY CHARGER

► 640140

SOLAR BATTERY CHARGER 12V @ 250mA



BREAK AWAY KIT

► 640080 KIT
► 640090 REPLACEMENT SWITCH

*BREAK AWAY SYSTEM FOR SINGLE OR TANDEM TRAILERS.
INCLUDED: 12V BATTERY*



BATTERY CABLE #4 WITH 5/16" LUGS

► 610240 RED, 18" Long
► 610260 BLACK, 24" Long
► 610270 RED, 24" Long



HYDRAULIC HOSE 3/8", 1 WIRE, FEMALE 3/8 JIC AND MALE 1/2" NPT

► 320011	17" Long	► 320060	48" Long
► 320030	24" Long	► 320070	60" Long
► 320050	36" Long		

COMPONENTS



ALUMINUM TOOLBOX TRAY

- ▶ 810400 Aluminum Toolbox Tray - Left Side
- ▶ 810500 Aluminum Toolbox Tray - Right Side



2" BREATHER FILLER TUBE WITH 40 MICRONS SCREEN BASKET

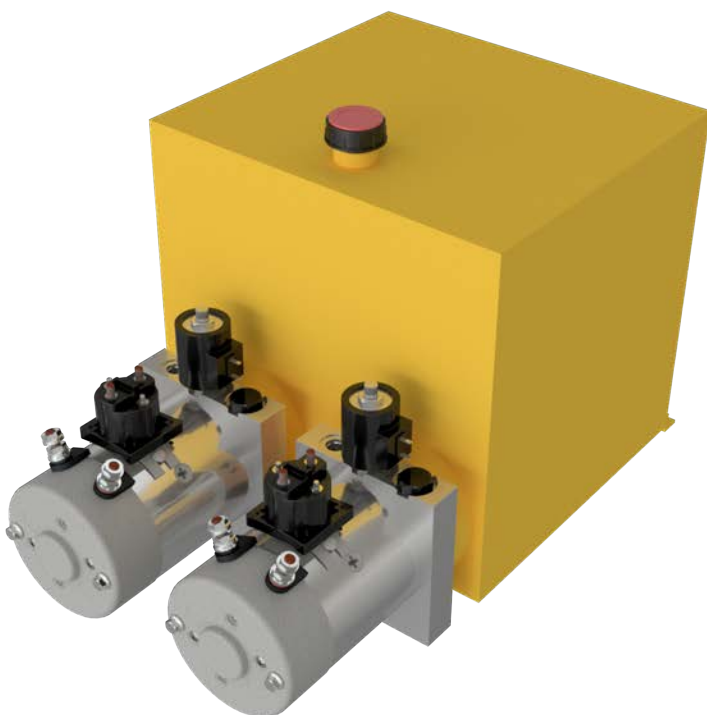
- ▶ 520040



PRESSURE COMPENSATED FLOW CONTROL FOR RETURN PORT TO TANK

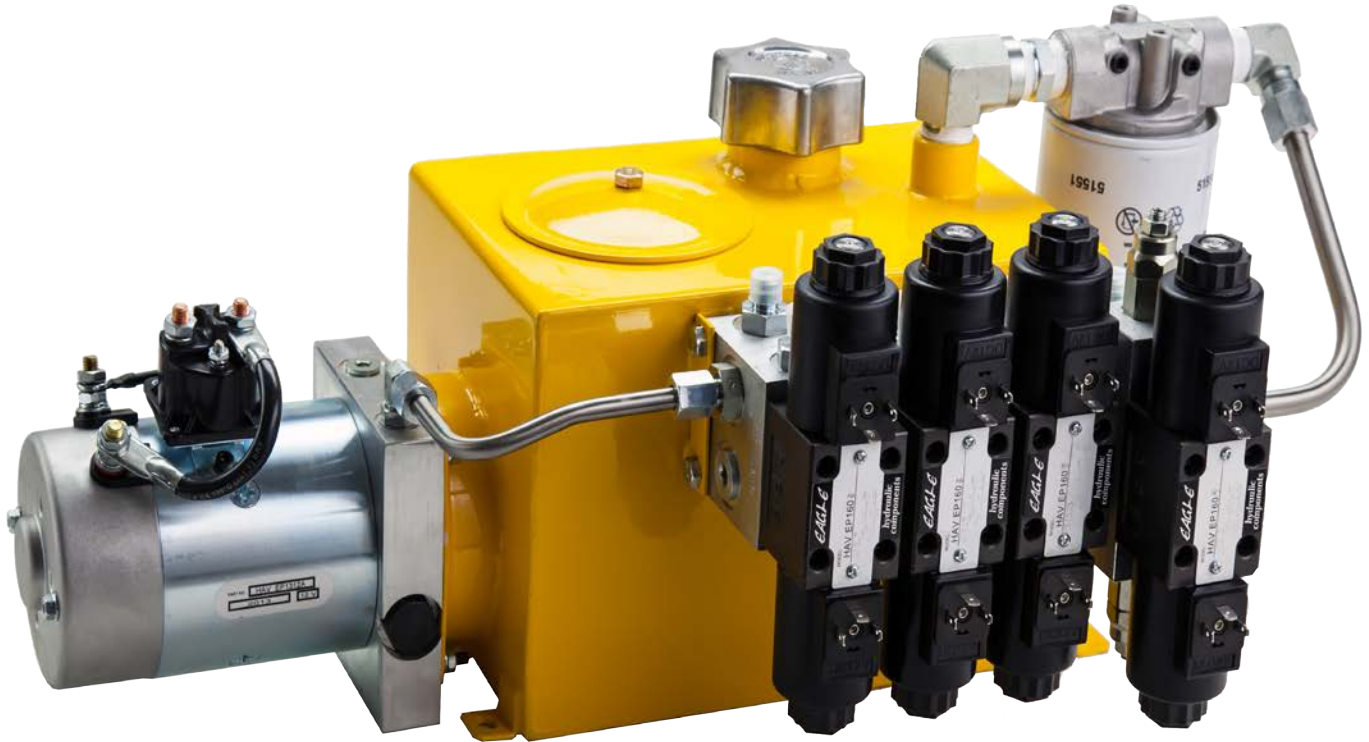
- ▶ 100500 9/16-18 SAE Max. 8.5 l/m

CUSTOMIZABLE OPTIONS



- SINGLE OR DOUBLE ACTING CONFIGURATION AND MORE...
- 3 RANGES OF MOTORS STANDARD, HEAVY DUTY & LONG DUTY
- POWER UP, DOWN OR BOTH
- MULTIPLE RELIEF VALVES AVAILABLE
- 12, 24, 115/230 VOLT AC 1 PH, 230/460/575 VOLT AC 3 PH
- PUMP FLOW 0.75CC TO 8.0 CC
- SHRINK TUBE COVERED WIRES
- MANUAL CONTROL, 2 OR 4 BUTTONS
- WIRELESS REMOTE - LONG RANGE
- 20' CABLE MANUAL REMOTE
- LOWER AMPERAGE DRAW
- ISOLATED GROUND
- LOW NOISE
- TESTED AT 3000PSI
- MINIMAL REBOUND SOLENOID
- METAL OR PLASTIC TANK, ROUND OR SQUARE
- PUMP INDEPENDANTLY TESTED FOR 300, 000 CYCLES

CUSTOMIZABLE OPTIONS



CUSTOM HYDRAULIC POWER UNIT



AERIAL LADDER TRUCK

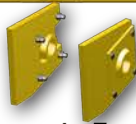


EAGLE

IS YOUR ONE STOP SOLUTION FOR TRAILER APPLICATIONS



7 & 12 Ton
Telescopic
Cylinders



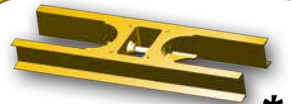
Telescopic Trunnion
mounting Bracket *



Gate Cylinders



Hoist Cylinders



H Beam Telescopic
Cylinder Support Bracket *



Tool Boxes



Power Unit



Hoses and Fittings



Battery Cables



Battery Support



Battery Charger



Solar Battery
Charger



Master Power
switch



Wireless Control

* BRACKETS AND H-BEAM SUPPLIED UNPAINTED

Proud Member of :



NON-TRANSFERABLE LIMITED WARRANTY

This document outlines the warranty associated with Eagle Hydraulic Components' products. If you have any questions regarding this warranty, please contact our service department by phone at 1-877-382-2850 or by e-mail at service@eagle-hydraulic.com.

Eagle Hydraulic Components, Inc., formerly HWF Hydraulique International Inc. ("EAGLE"), warrants to you, the original purchaser, that all of its products are free from defects in material or workmanship under normal use and service for the following periods:

EAGLE's warranty is limited to the Original Equipment Manufacturer ("OEM") and/or distributor to whom EAGLE's products are originally sold. EAGLE's warranty is non-transferable to any subsequent purchaser and limited to original purchaser from EAGLE.

EAGLE's **1 year** warranty period is calculated from the power unit manufacturing date.

MAINTENANCE:

Inspections and maintenance should be performed on all EAGLE products at regular intervals. While necessary maintenance or repairs on your EAGLE product can be performed by any company, we recommend that you use only authorized EAGLE dealers.

WARNING: IMPROPER OR INCORRECTLY PERFORMED MAINTENANCE OR REPAIR VOIDS THIS WARRANTY.

How to Obtain Service From EAGLE Under This Limited Warranty:

To obtain service under this warranty, contact our service department by phone at 1-877-382-2850 or by e-mail at service@eagle-hydraulic.com.

Please note, EAGLE's obligation to repair or replace your EAGLE product is subject to confirmation by EAGLE's service technicians that the part contains a defect in material or workmanship.

EAGLE's obligations under this warranty are limited to the repair or replacement of the subject EAGLE part or product. The decision to repair or replace any defective EAGLE part or product is solely at the discretion of EAGLE. Please further note, EAGLE reserves the right to direct any and all repairs performed under this warranty to a local approved service location.

What This Warranty Does Not Cover:

EAGLE shall have no responsibility for the following:

- Troubleshooting, diagnostic, removal, or reinstallation labor charges of any EAGLE part or product unless prior written approval is obtained from EAGLE;
- Freight charges for either defective parts, new parts, or repaired; ***
- Claims for loss of time, inconvenience, loss of use, profits or any other incidental or consequential damages arising from any product defect;
- Conditions arising from or caused by alteration of the product, product misuse or neglect, lack of proper maintenance, fire, theft, loss, or damage to the product (including, but not limited to, intentional damage, weather related damage, or any other type of physical damage);
- Corrosion, unless the material is found to be out of specification;
- Failure caused by foreign contamination introduced to the power unit;
- Paint, unless out of specification;
- Normal wear of internal components.

*** Please note, in certain circumstances, EAGLE may decide to reimburse a customer for freight charges associated with a warranty claim. However, the decision to provide reimbursement for freight changes remains within the sole discretion of EAGLE.

Products which experience color change due to normal weathering are also excluded from this warranty (including non-uniform fading and color changes resulting from unequal exposure of panels to the sun and elements). For purposes this warranty, the term "normal weathering" means exposure to ultraviolet (sun) light, and extremes of temperature and atmosphere which will cause any colored or painted surface to fade, darken, chalk, crack, or acquire surface accumulation of dirt or stains. The severity of these conditions depends on air quality, the geographic location of the property at which the products are installed, and other local conditions over which EAGLE has no control.

EAGLE shall not be liable for and this warranty does not apply or extend to any failure, defects, or damages arising from or connected with, without limitation, misuse, abuse, neglect, faulty or improper installation.

Warranty Void – Use Authorized Representative for Inspections:

This warranty is null & void should the product be dismantled, opened, or serviced by anyone other than an approved representative of EAGLE.

If you believe that your EAGLE product suffers from a defect covered by this warranty, contact our service department to report the problem and obtain information regarding where to bring your product for inspection.

Warranty procedure:

In order to validate each claim and administer our warranty, EAGLE requires each customer who is making a warranty claim to fill out a "Warranty Claim Form." This form includes basic information, such as the Part Number, Serial Number, and a simple description of how the product failed. If possible, please describe the defect. EAGLE also requests that you provide a photograph of the product and any potentially defective conditions, to assist us in confirming your warranty claim.

Below please find a checklist of items to provide EAGLE to assist us process your warranty claim:

1. Warranty Claim Form
2. Part Number & Serial Number
3. Invoice Number and Date
4. Photo that best portrays the defect

FAILURE TO SUBMIT A COMPLETED "WARRANTY CLAIM FORM" MAY RESULT IN THE DENIAL OF YOUR WARRANTY CLAIM.

If requested for inspection by EAGLE, defective parts must be shipped to EAGLE's chosen shipping address. When returning a product, we recommend that you utilize an insured method of delivery, which includes a signature for acceptance of delivery.

Warranty Processing:

Through EAGLE's Authorized Dealer: Upon arrival of your EAGLE product and Warranty Claim Form to EAGLE's authorized dealer, EAGLE and the dealer will assess and investigate your warranty claim within five (5) working days to provide a preliminary assessment of any claims. If, based on this preliminary assessment, EAGLE believes that the product may contain a defect which falls within this warranty, EAGLE's authorized dealer will make arrangements to return the product to EAGLE's service headquarters in Montreal, Canada for final assessment. At that time, EAGLE will assign an RGA number (return goods authorization) to track the product. Please allow 2-3 weeks for assessment by EAGLE's service headquarters.

Through EAGLE's Headquarters: You may ship your EAGLE product and Warranty Claim Form directly to EAGLE's service headquarters in Montreal, Canada to expedite processing of your claim.

If your EAGLE product contains a condition which falls within EAGLE's warranty:

1. EAGLE will process the claim within 15-days after the product arrives in Montreal, Canada.
2. EAGLE will either repair or replace the defective product, at our discretion..

NOTICE TO OEM DEALERS AND DISTRIBUTORS:

With respect to warranty claims presented by EAGLE's product dealers and distributors, EAGLE will consolidate all valid warranty claims, review them, and take action on a quarterly basis.

WARRANTY LIMITATIONS

THIS WARRANTY IS NOT APPLICABLE OUTSIDE OF NORTH AMERICA.

EAGLE reserves the right to discontinue or change any of its products, including colors, without providing notice to its dealers, distributors, or purchasers. Should a product covered by this warranty become unavailable for any reason, EAGLE reserves the right, at EAGLE's sole discretion, to substitute a product that is of equal quality or refund the purchase price.

If the product is not returned to EAGLE's headquarters for inspection, you the customer, must maintain and preserve the product as evidence. If EAGLE does not request the defective product to be returned, the customer may discard the product appropriately after 60 days.

THE WARRANTY PROVIDED ABOVE CONTAINS THE EXTENT OF ALL EXPRESS WARRANTIES. EAGLE MAKES NO WARRANTIES REGARDING ANY PRODUCT'S FITNESS FOR ANY PARTICULAR PURPOSE. EAGLE'S WARRANTY DOES NOT COVER ANY PROPERTY DAMAGE, PERSONAL INJURY, INCIDENTAL DAMAGE OR CONSEQUENTIAL DAMAGE ALLEGEDLY ASSOCIATED WITH ITS PRODUCTS. EAGLE shall not be liable for inconvenience, labor, loss of time, maintenance, removal or reinstallation of the products or other incidental, special or consequential damages arising in relation to the purchase or use of the product.

BY PURCHASE OF EAGLE'S PRODUCT(S), INCLUDING THIS WARRANTY, BUYER ACCEPTS THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES, LIABILITIES OR OBLIGATIONS OF EAGLE, EITHER EXPRESSED OR IMPLIED, EXCEPT THAT THE DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED IN TIME TO THE DURATION OF THIS WARRANTY. EAGLE SHALL IN NO EVENT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND FOR BREACH OF ANY EXPRESS WRITTEN OR ORAL OR IMPLIED WARRANTY ON PRODUCTS. YOUR EXCLUSIVE REMEDY SHALL BE ENFORCEMENT OF THIS WARRANTY UPON THE TERMS AND CONDITIONS STATED HEREIN. NO REPRESENTATIVE OF EAGLE OR ITS DISTRIBUTORS OR DEALERS IS AUTHORIZED TO MAKE ANY CHANGE OR MODIFICATION TO THIS WARRANTY.

Some jurisdictions do not allow various limitations on implied warranties. Some jurisdictions do not allow the exclusion or limitation on consequential or special damage. As such, the limitations contained herein are subject to the limits of the applicable law. This warranty gives you specific legal rights, and you may also have other rights, all of which vary from jurisdiction to jurisdiction. If any provision of this warranty is declared to be illegal, unenforceable, or void, the remainder of this warranty shall be enforced to the extent permitted by law and the illegal, unenforceable or void provision shall be replaced with a mutually acceptable provision which comes closest to the intention of the underlying original provision, to the extent possible.

DEFECT DESCRIPTION FORM – POWER UNIT

In order to assist us in validating your warranty claim, please provide as much detail possible to best describe the defect. This information is critical to help us understand the problem and take corrective measures in future initiatives.

Unit Part Number: _____

Company Name: _____

Serial Number: _____

Contact: _____

Date Code: _____

Email: _____

Description:

LOCATION OF DEFECT *Check applicable box*



PRESSURE Not Building ☐

Not Holding ☐

OTHER ☐

TANK LEAKING ☐

ELECTRICAL ☐

This warranty is expressly in lieu of any other warranties, expressed or implied, including any implied warrant of merchantability or fitness for a particular purpose, and of any non-contractual liabilities including liabilities for personal injury or property damage or any other product liabilities based upon negligence or strict liability. Any additional or different liabilities assumed by Eagle must be contained in writing and signed by an authorized employee of Eagle. Eagle has the right to review and cancel, change or modify this agreement. In the case of discrepancy, the Eagle document will render the warranty claim as denied. Special Note: System contamination, unauthorized disassemble or repair, misuse, abuse, accidental or improper installation, adjustment of the intended application will void all warranty.

RGA #: _____

AUTH BY: _____

This area is for internal use only

DATE: _____

COMMENTS: _____

FLUID POWER FORMULAS

PRESSURE

$$P = F / A \quad F = P \times A$$

P = Pressure (PSI) F = Force (Lb.)

A = Area (sq. in.)

HYDRAULIC HORSEPOWER

$$HP = P \times Q \times 0.000583$$

HP = Hydraulic HP Q = Flow (GPM)

P = Pressure (PSI)

CYLINDER VOLUME

$$V = A \times S$$

V = Volume (cu. in.) A = Area (sq. in.)

S = Stroke (in.)

MOTOR HP REQUIRED TO DRIVE A PUMP (GPM x PSI) / (1714 x Eff)

Efficiency is in most cases not higher than 85%

$$1714 \times 0.85 = 1457$$

CYLINDER PISTON AREA

$$A_p = 0.7854 (D_p)^2$$

A_p = Piston Area

D_p = Piston Diameter

HYDRAULIC MOTOR HORSEPOWER

$$HP = (S \times T) / 63.025$$

HP = Hydraulic Motor Horsepower

S = Speed (RPM) T = Torque (Lb/in.)

CYLINDER ROD AREA

$$A_r = 0.7854 (D_r)^2$$

A_r = Rod Area

D_r = Rod Diameter

HYDRAULIC TANK COOLING

$$HP = 0.001 \times A_w \times \Delta T$$

HP = Horsepower A_w = Wetted Area (sq.ft)

Δ T = Oil Temp - Amb. Air Temp

CYLINDER EFFECTIVE AREA

$$A_e = A_p - A_r$$

A_e = Effective Area A_p = Piston Area

A_r = Rod Area

HYDRAULIC MOTOR SPEED

$$RPM = (Q \times 231) / \text{Disp.}$$

RPM = (Motor Shaft Speed) Q = Flow (GPM)

Disp = Motor Disp (Cu / In / Rev)

CYLINDER PISTON SPEED

$$V = Q \times 231 / A$$

V = Piston Speed (min.) Q = Flow (GPM)

A = Cylinder Area (sq. in.)

HYDRAULIC MOTOR TORQUE

$$T = (p \times \text{Disp.}) / 2 \pi$$

T = Motor Torque (Lb-in) p = Pressure (PSI)

Disp = Motor Disp (Cu / In / Rev)

CYLINDER FLOW @ X SPEED

$$Q = (V \times A) / 231$$

Q = Flow (GPM) V = Rod Speed (In./Min.)

A = Cylinder Area (sq. in.)

TORQUE

$$T = F \times d$$

T = Torque (Lb-in)

F = Force (Lb)

d = Distance (in.)

NOTES



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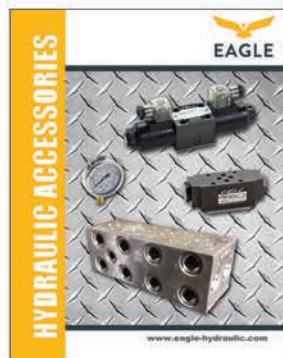
Tel: 450-433-2800 / 1-877-382-2850

Fax: 450-433-3004 / 1-877-382-2853

www.eagle-hydraulic.com



OTHER CATALOGS



"A Canadian  Owned & Operated Company"