

POWER UNITS CATALOG



INNOVATIVE MOBILE SOLUTIONS
DESIGN ▼ MANUFACTURE ▼ INTEGRATE

☎ 1 877 382-2850 🌐 EAGLE-HYDRAULIC.COM



INNOVATIVE MOBILE SOLUTIONS

Eagle Hydraulic Inc. is a Canadian based manufacturer of custom and standard hydraulic solutions.

We manufacture hydraulic cylinders, hydraulic power units and pumps as well as engineer and integrate more than 500,000 other hydraulic components such as motors, valves, manifolds, and many more options.

Serving the mobile equipment industry for decades, our products are designed and supported from our head office located in Mirabel, Quebec, Canada to exceed North American standards.

We own and operate two hydraulic cylinder manufacturing facilities located in China. Our manufacturing operations are certified ISO TS16949. We are also a certified OEM production supplier to many large North American based corporations.

Our services include custom components or system design, on-site visits, continuous support, flexible delivery and stocking programs, inventory updates, many warranty options and responsive service.

We strive to provide you the best experience and deliver high-quality merchandise faster than expected.

Eagle Hydraulic adds value through innovation, quality, respect, commitment, loyalty, and teamwork.

OUR CAPABILITIES

1

OEM HYDRAULIC CYLINDERS

2

STANDARD HYDRAULIC CYLINDERS

3

HYDRAULIC POWER UNITS

- AC
- DC

4

HYDRAULIC COMPONENTS

- Pumps
- Motors
- Valves
- Tanks
- Toolboxes
- Manifolds
- Filters
- Remotes
- Wireless controllers
- ...

5

SYSTEM INTEGRATION

6

NEW: NOVAPEAK

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INTEGRATED TOOLBOX

Eagle is not only a hydraulic cylinder manufacturer anymore! Our goal is to be a value-added manufacturer of any quality hydraulic component and the turnkey solution tailored for you needs.

We adapt our business the way you want, strengthening our product portfolio and our services for you. By understanding your needs, we cooperate in the development of new products - as partners. This is what sets Eagle apart from the rest!

Our integrated solutions offer a cost-effective way to reduce labor and increase the efficiency of your assembly. Assembled from high-quality parts, the Eagle designed power units, combined with a toolbox and accessories is the perfect system when paired with Eagle Hydraulic cylinders



Assembled in Canada

NO DOWNTIME

The next generation of
POWER is here



NovaPeak

OUR NEWEST BREAKTHROUGH

A revolution that charges in minutes
without losing maximum power

Patent: PCT/CA2018/051258

INTEGRATED MOBILE SOLUTION

1

TOOLBOX

- Easily mounted on trailer A-frame
- Toolbox can be purchased separately

Different models available:

POLYMER TOOLBOX WITH LOCKING HASP - 810100
36" W x 18.75" D x 17.72" H

AMERICAN CHECKERPLATE ALUMINIUM TOOLBOX - 810200
36" W x 17.75" D x 16.375" H

AMERICAN CHECKERPLATE ALUMINIUM HIGH TOOLBOX 810300
36" W x 17.75" D x 20.125" H

2

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: From 0.8 to 8.0 cc

Mounting: Horizontal

3



POWER UNIT REMOTE CONTROL

Including 20' of 16/3 cables

5



AUTO-RESET FUSE 618110

7



RED BATTERY CABLE, 18" LONG - 610240
BLACK BATTERY CABLE, 24" LONG - 610260
RED BATTERY CABLE, 24" LONG - 610270

9



HYDRAULIC HOSE 3/8" 320XXX

4



NOVAPEAK

Including battery tray and no more downtime

6



MASTER SWITCH 640010

8



BLACK WIRELESS REMOTE CONTROL (BX-W003) 630020

10



BATTERY CHARGER 640120

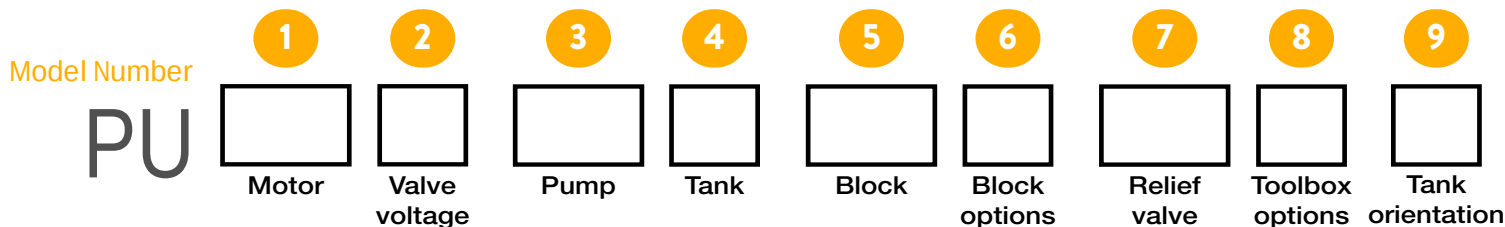


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POWER UNIT MODEL NUMBER BREAKDOWN

EAGLE POWER UNITS ARE HIGHLY CUSTOMIZABLE. HOWEVER, WE ONLY STOCK THE MOST COMMON COMPONENTS.



1

ELECTRICAL MOTOR

11 = 12v - 2.14 HP - Long Duty [600120]
12 = 12v - 2.14 HP [600110]
24 = 24v - 2.68 HP [600210]

110 = 115v - 1 HP, 3600 RPM, 1PH, 56C, S1 [600470]
114 = 115v - 2 HP, 3600 RPM, 1PH, 56C, S1 [600480]
115 = 115v - 2 HP, 3480 RPM, 1PH, S3 [600320]
116 = 115v - 3 HP, 3480 RPM, 1PH, S3 [600340]

117 = 115v - 3 HP, 3600 RPM, 1PH, 56HC, S1 [600490]
181 = 115v - 1 HP, 1800 RPM, 1PH, 56C, S1 [600475] - **NEW**
182 = 115v - 2 HP, 1800 RPM, 1PH, 56C, S1 [600485] - **NEW**

218 = 220v - 1 HP, 3600 RPM, 1PH, S1 [600470]
219 = 220v - 2 HP, 3600 RPM, 1PH, S1 [600480]
220 = 220v - 2 HP, 3480 RPM, 1PH, S3 [600320]
221 = 220v - 3 HP, 3480 RPM, 1PH, S3 [600340]

222 = 220v - 3 HP, 3600 RPM, 1PH, 56HC, S1 [600490]
281 = 220v - 1 HP, 1800 RPM, 1PH, 56C, S1 [600475] - **NEW**
282 = 220v - 2 HP, 1800 RPM, 1PH, 56C, S1 [600485] - **NEW**

600 = 575v - 3 HP, 3600 RPM, 3PH, 182T, S1 [600460]
605 = 575v - 5 HP, 1800 RPM, 3PH, 184T, S1 [600510]
683 = 575v - 3 HP, 1800 RPM, 3PH, 182T, S1 [600465] - **NEW**

NEW: GAS MOTOR

90 = 5.7 HP, Briggs & Stratton
Gas Engine, Manual Starter,
Horizontal Mount

2

VALVE VOLTAGE

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

3

PUMP

08 = 0.8 cc [400010]
10 = 1.1 cc [400020]
16 = 1.6 cc [400040]
20 = 2.1 cc [400050]
25 = 2.5 cc [400060]
32 = 3.2 cc [400080]
42 = 4.2 cc [400090]
58 = 5.8 cc [400100]
80 = 8.0 cc [400110]

4

PLASTIC TANK

B = Plastic 4 Liters - 1.06 Gal. [510020]
C = Plastic 5 Liters - 1.32 Gal. [510030]
D = Plastic 6 Liters - 1.59 Gal. [510050]
F = Plastic 8 Liters - 2.12 Gal. [510060]
G = Plastic 10 Liters - 2.65 Gal. [510070]
K = Plastic 15.1 Liters - 4.0 Gal. [510080]
H = Plastic 22.7 Liters - 6.0 Gal. [510090]

METAL ROUND TANK

M = Metal Round 1.7 Liters - 0.45 Gal. [500010]
N = Metal Round 2.8 Liters - 0.74 Gal. [500020]
O = Metal Round 3.9 Liters - 1.03 Gal. [500030]
P = Metal Round 5 Liters - 1.32 Gal. [500040]
Q = Metal Round 6 Liters - 1.58 Gal. [500060]
R = Metal Round 8 Liters - 2.11 Gal. [500070]
S = Metal Round 10 Liters - 2.64 Gal. [500080]
T = Metal Round 12 Liters - 3.17 Gal. [500090]
U = Metal Round 14 Liters - 3.7 Gal. [500100]

METAL SQUARE TANK

V = Metal Square 11.34 Liters - 3.0 Gal. [500110]
L = Metal Square 15.12 Liters - 4.0 Gal. [500120]
W = Metal Square 18.9 Liters - 5.0 Gal. [500130]
X = Metal Square 23.6 Liters - 6.24 Gal. [500140]
Z = Metal Square Flat 23.6 Liters - 6.25 Gal. [500150]
Y = Metal Square Double Motor 26.5 Liters - 7.0 Gal. [500160]
E = Metal Square 30.2 Liters - 8 Gal. [500180]
A = Metal Square 37.8 Liters - 10 Gal. [500190]
* = No Tank

5

BLOCK MODELS

01 = Basic P & T Ports, No Valve (Model 01, page 8)
02 = Pressure Up, Gravity Down, Single Acting with Electrical Valve (Model 02, page 10)
03 = Pressure Up, Gravity Down, Single Acting with Manual Valve w/ Motor Start (Model 03, page 12)
05 = Pressure Up, Gravity Down, Single Acting with Manual Valve (Model 05, page 14)
06 = Pressure Up, Gravity Down, Double Acting from Side to Side w/ Relief Valves - Snow Plow (Model 06, page 16)
10 = Pressure Up and Down, Double Acting With External Check Valves and Relief on "B" Port (Model 10, page 18)
11 = Pressure Up and Down, Double Acting With Internal Check Valves and Relief on "B" Port (Model 11, page 20)
12 = Pressure Up and Down, Double Acting with D03 Solenoid Valve (Model 12, page 22)
14 = Pressure Up and Down, Double Acting with D02 Solenoid Valve (Model 14, page 24)
15 = Pressure Up and Down Double Acting, Manual Valve DO3 (Model 15, page 26)
16 = Pressure Up and Down Double Acting, Manual Valve DO2 (Model 16, page 28)
24 = Pressure Up and Down, Double Acting, 2 x D03 Solenoid Valve (Model 24, page 30)
28 = Pressure Up and Down, Double Acting, 2 x D02 Solenoid Valve (Model 28, page 30)
36 = Pressure Up and Down, Double Acting, 3 x D03 Solenoid Valve (Model 36, page 30)
42 = Pressure Up and Down, Double Acting, 3 x D02 Solenoid Valve (Model 42, page 32)
48 = Pressure Up and Down, Double Acting, 4 x D03 Solenoid Valve (Model 48, page 32)
56 = Pressure Up and Down, Double Acting, 4 x D02 Solenoid Valve (Model 56, page 32)

6

BLOCK OPTIONS

D = Piloted Check VV Bank 1, Port A & B - D03 [122520]
E = Piloted Check VV Bank 1 & 2, Port A & B - D03 [122520]
F = One Way Flow Control Bank 1, Port A & B - D03 [122550]
G = One Way Flow Control Bank 1 & 2, Port A & B - D03 [122550]
H = Pressure Relief VV on One Bank, A>T and B>T - D03 [122510]
L = Level Gauge [520080]
P = 10cc Manual Hand Pump - Avail. on models 02 and 03 [115100]
S = Single Acting on Bank 2 [315000]
V = Pressure Comp. Flow Control [100500]
W = Wireless Remote Control [630010 / 630030]
X = Without Remote Control

7

RELIEF VALVE

Two Digits: 00 x 100 PSI
Examples:
05 = 500 PSI
30 = 3000 PSI

8

TOOLBOX OPTIONS

OMIT = None
C = Plastic Tool Box Kit
CA = Aluminium Tool Box Kit
R = Auto Reset
G = Battery Charger
M = Master Switch
S = Battery Tray Group 27-31
T = Tool Trays (Pair)

* Battery Tray Group 24 is standard.

9

TANK ORIENTATION

OMIT = Horizontal
1 = Vertical

*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

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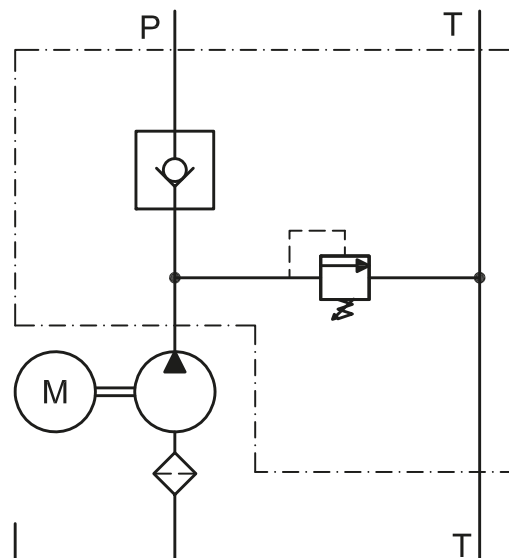
This power unit has a basic circuit with “P” and “T” SAE 6 (9/16-18) ports. This circuit has a cartridge check valve and adjustable relief valve. The gear pump is equipped with a suction screen attached to a 90° elbow inside the tank which comes with a 3/4” NPT breather/dipstick. Designed for external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

OPTIONS:

- ▶ **Motor:** DC 12/24V, 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



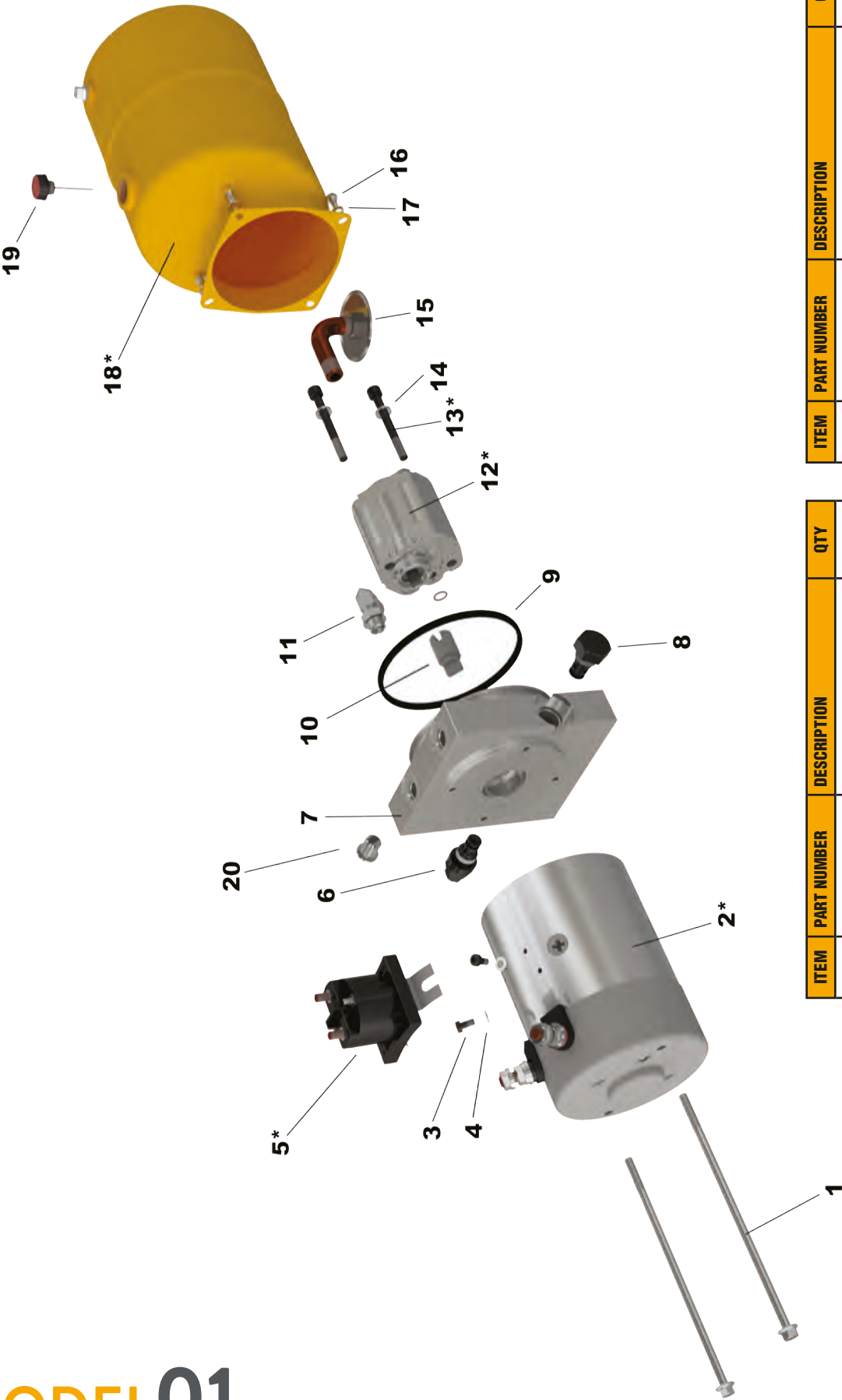
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EXPLODED VIEW



MODEL01

* Items such as motor, pump, tank have different ordering part numbers depending on the option purchased originally. Always specify the 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	210010	Block	1
8	110100	Checkvalve	1
9	330100	Tank O-Ring	1
10	421000	Motor/Pump Coupler	1

ITEM	PART NUMBER	DESCRIPTION	QTY
11	310067	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
20	315000	Block Plug	1

SHOWN HERE WITH MANUAL HAND PUMP OPTION



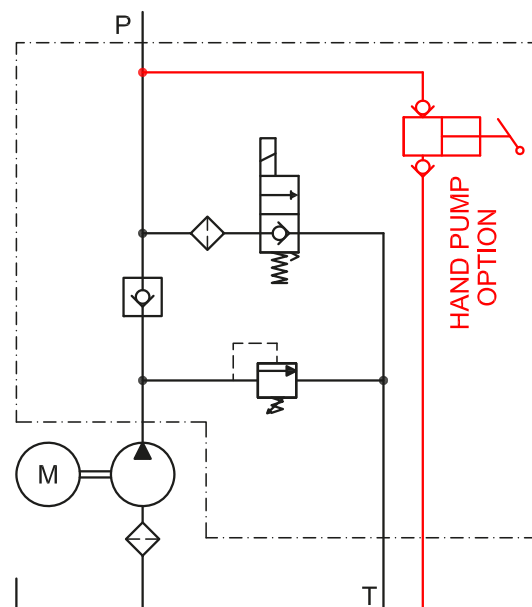
This power unit has a single acting circuit with two SAE 6 (9/16-18) ports for straight or 90° hose. The 2-way, 2-position cartridge valve has a manual override and an internal check valve. This circuit also has a cartridge check valve and adjustable relief valve. The magnetic two button remote control comes with holder and 6 meters of cable, which has a quick connect at the motor. 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, 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
- ▶ With manual override

TYPICAL APPLICATION:

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



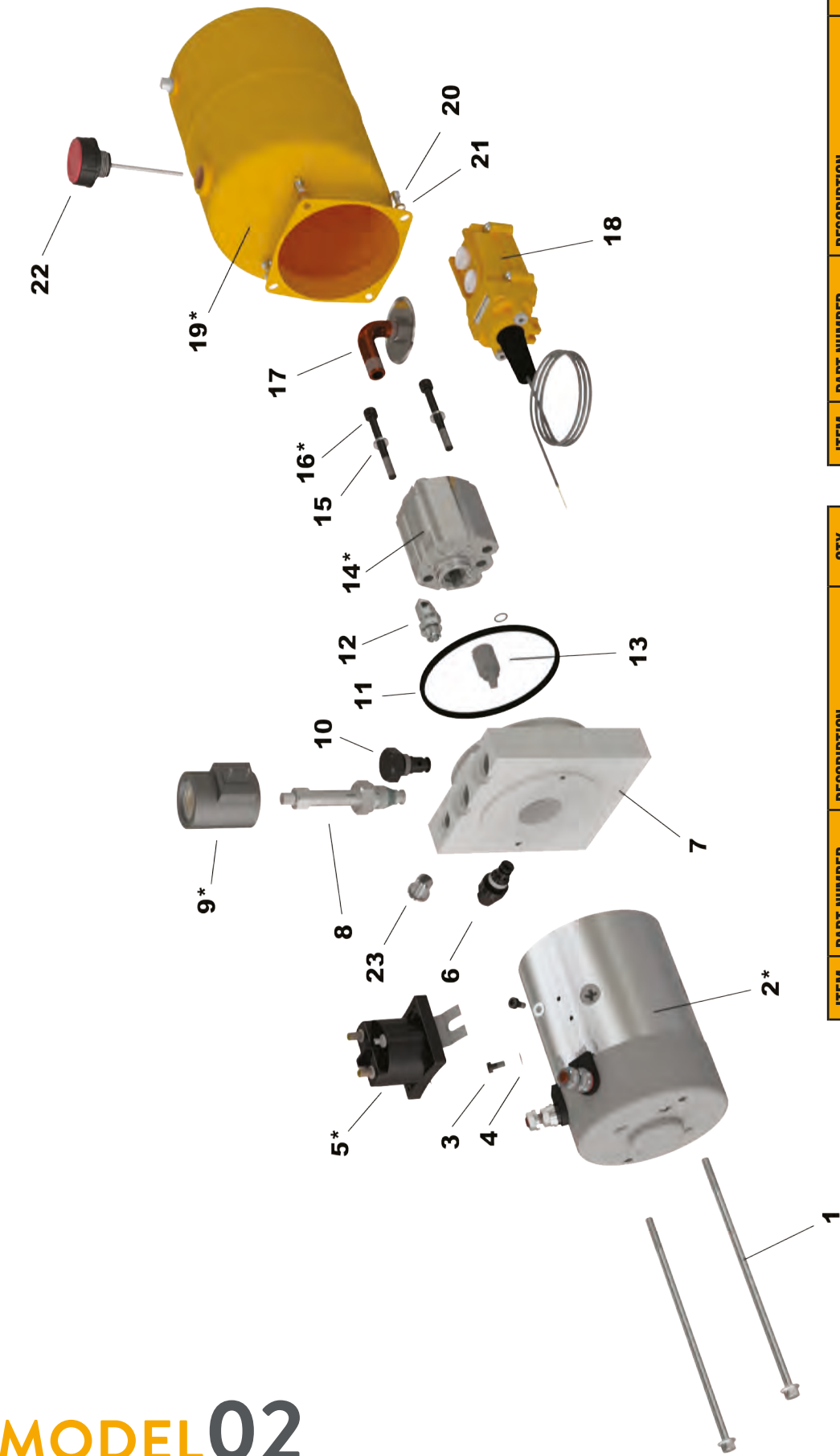
*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

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EXPLODED VIEW



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	210025	Block	1
8	115200	Valve w/ manual override	1
9	641xxx*	Coil*	1
10	110100	Checkvalve	1
11	330100	Block O-Ring	1
12	310067	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
23	315000	Block Plug	1

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



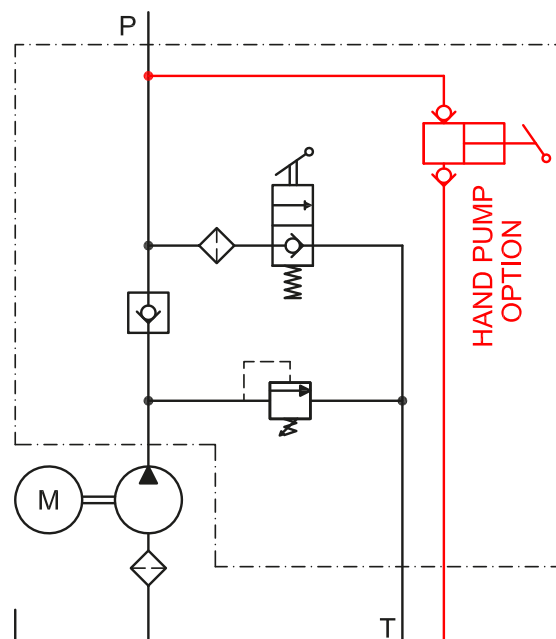
This power unit has a single acting circuit with two SAE 6 (9/16-18) ports for straight or 90° hose. The 2-way, 2-position manual valve has an internal check valve. This circuit also has a cartridge check valve and adjustable relief valve. The gear pump is equipped with a suction screen attached to a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

OPTIONS:

- ▶ **Motor:** DC 12/24V, 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

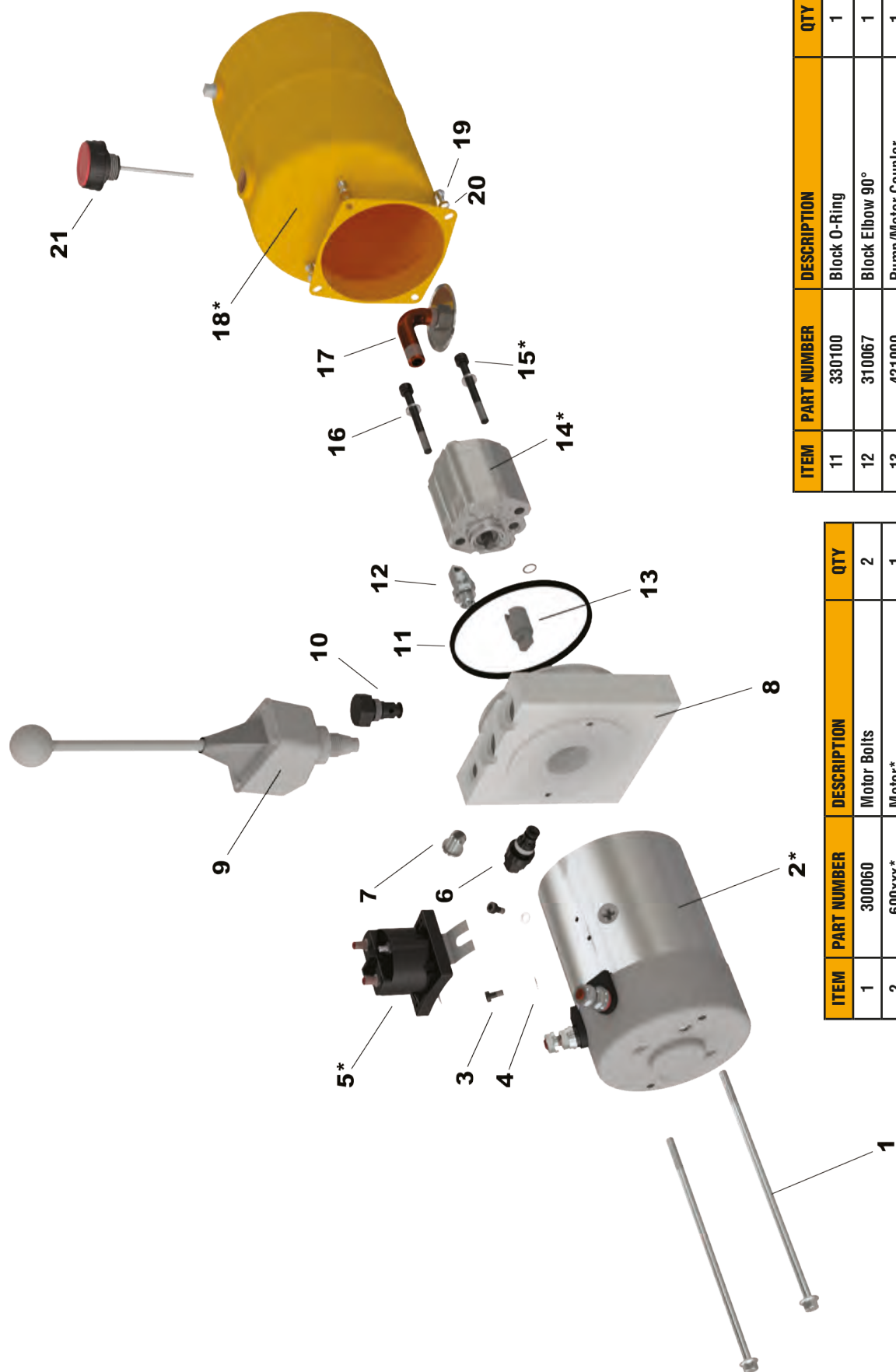
TYPICAL APPLICATION:

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



*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

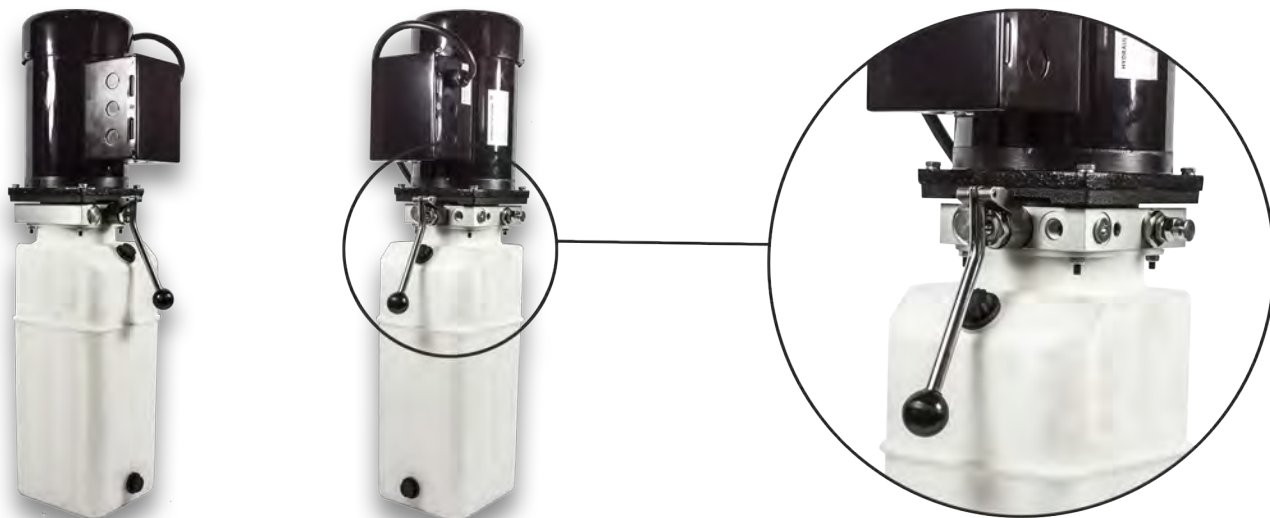
EXPLODED VIEW



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	210025	Block	1
9	115230	Manual Valve	1
10	110100	Checkvalve	1

ITEM	PART NUMBER	DESCRIPTION	QTY
11	330100	Block O-Ring	1
12	310067	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

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



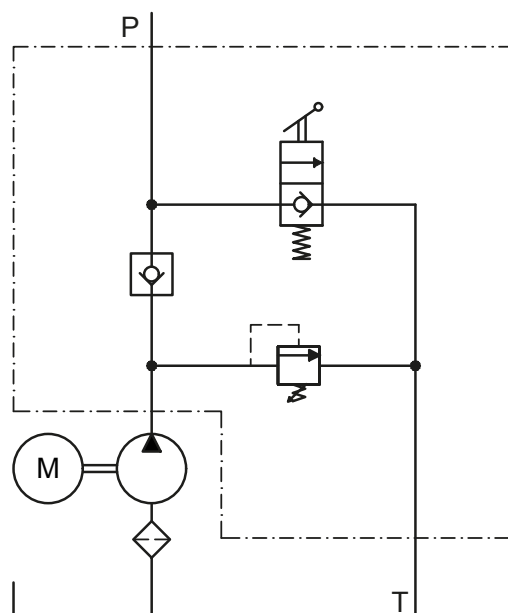
This power unit has a single acting circuit with two SAE 6 (9/16-18) ports for straight or 90° hose. The 2-way, 2-position manual valve has an internal check valve. This circuit also has a cartridge check valve and adjustable relief valve. The gear pump is equipped with a suction screen inside the tank 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



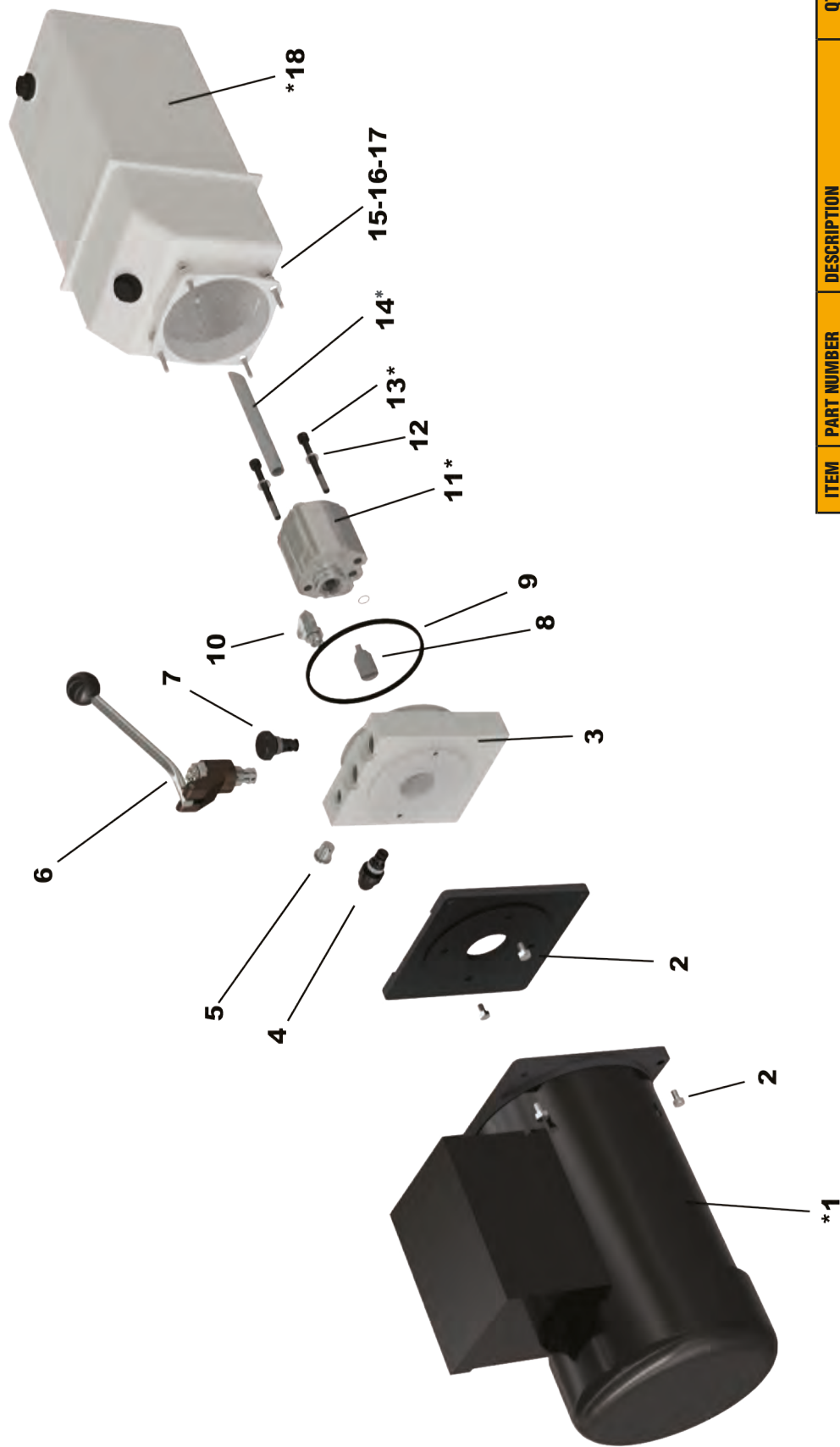
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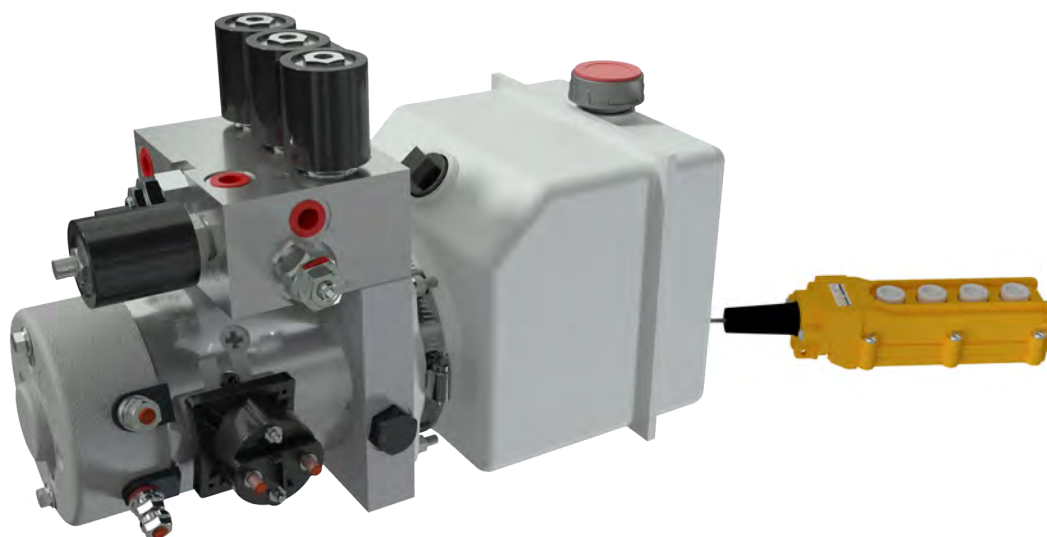
EXPLODED VIEW



ITEM	PART NUMBER	DESCRIPTION	QTY
1	600xxx*	Motor*	2
2	300070	Motor Bolt	6
3	210025	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

ITEM	PART NUMBER	DESCRIPTION	QTY
9	330100	Block O-Ring	1
10	310067	Block Elbow 90°	1
11	400xxx*	Pump*	1
12	307080	Lockwasher (Pump Bolts)	2
13	301xxx*	Pump Bolts*	2
14	7100xx*	Suction Tube	1
15	300050	Tank Stud	4
16	307050	Lockwasher (Tank Bolts)	4
17	307100	Tank Stud Nut	4
18	500xxx*	Tank*	1

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



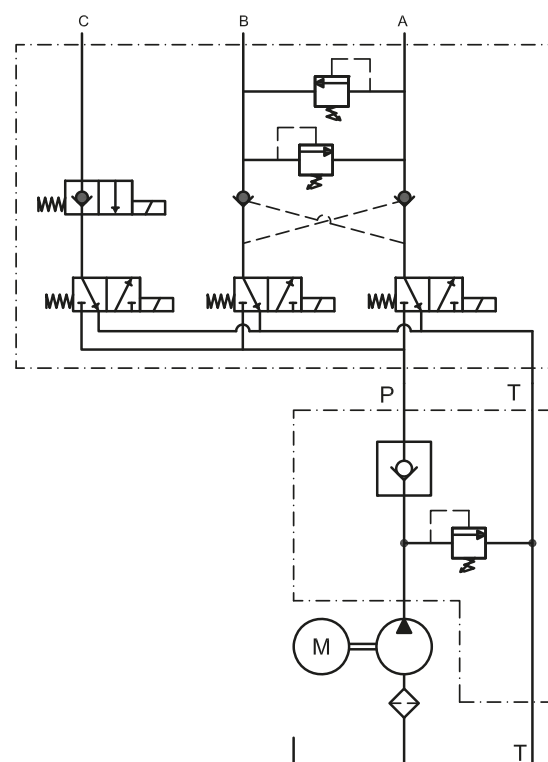
This power unit has a double acting circuit for left and right movement with cross-over relief system and pilot operated check valves. The power unit also has a single acting power up gravity down circuit with a cartridge valve with an internal check valve. The main housing encloses a check valve and adjustable relief valve as per our standard. 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. The unit comes standard with our 4 button remote control.

OPTIONS:

- ▶ **Motor:** DC 12/24V
- ▶ **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:

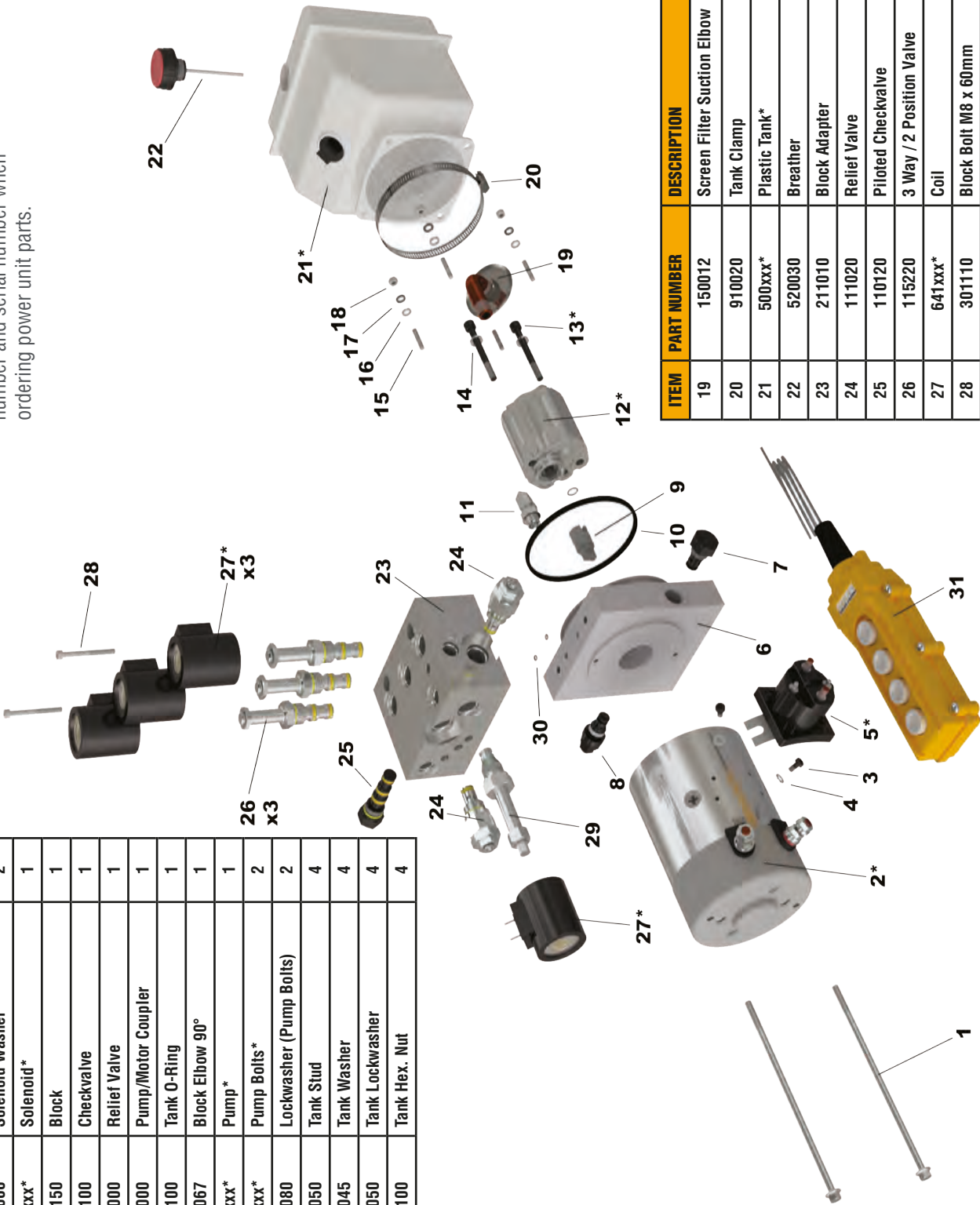
- ▶ **Snow Plow**
- ▶ **System requiring Power Up with check, Gravity Down, Left, Right**



EXPLODED VIEW

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the 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	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	310067	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



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	630090	Remote Control	1



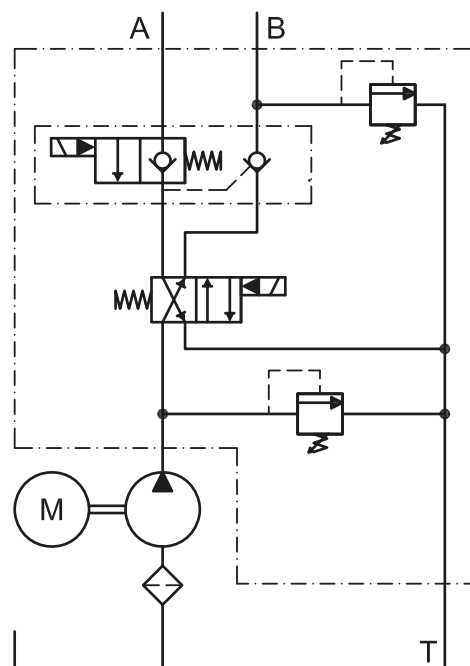
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 2-way, 2-position cartridge valve has an internal piloted check valve to prevent internal bypass and maintain constant pressure. This circuit also has a cartridge check valve and adjustable relief valve on the main and B port. The magnetic two button remote control comes with 6 meters of cable, which has a quick connect at the motor. 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, 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
- ▶ **Manual Override Available**

TYPICAL APPLICATION:

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



*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

MODEL10



ITEM	PART NUMBER	DESCRIPTION	QTY
11	310067	Block Elbow 90°	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	630100	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



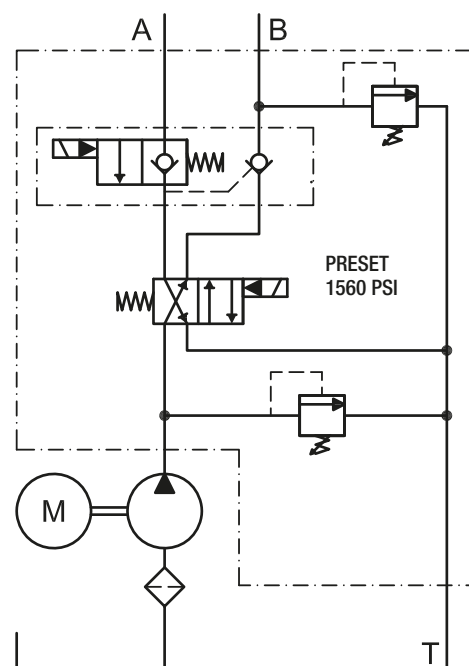
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 2-way, 2-position cartridge valve has an internal piloted check valve to prevent internal bypass and maintain constant pressure. This circuit also has a cartridge check valve and adjustable relief valve on the main and internal B port. The magnetic two button remote control comes with 6 meters of cable, which has a quick connect at the motor. 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, 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
- ▶ **Manual Override Available**

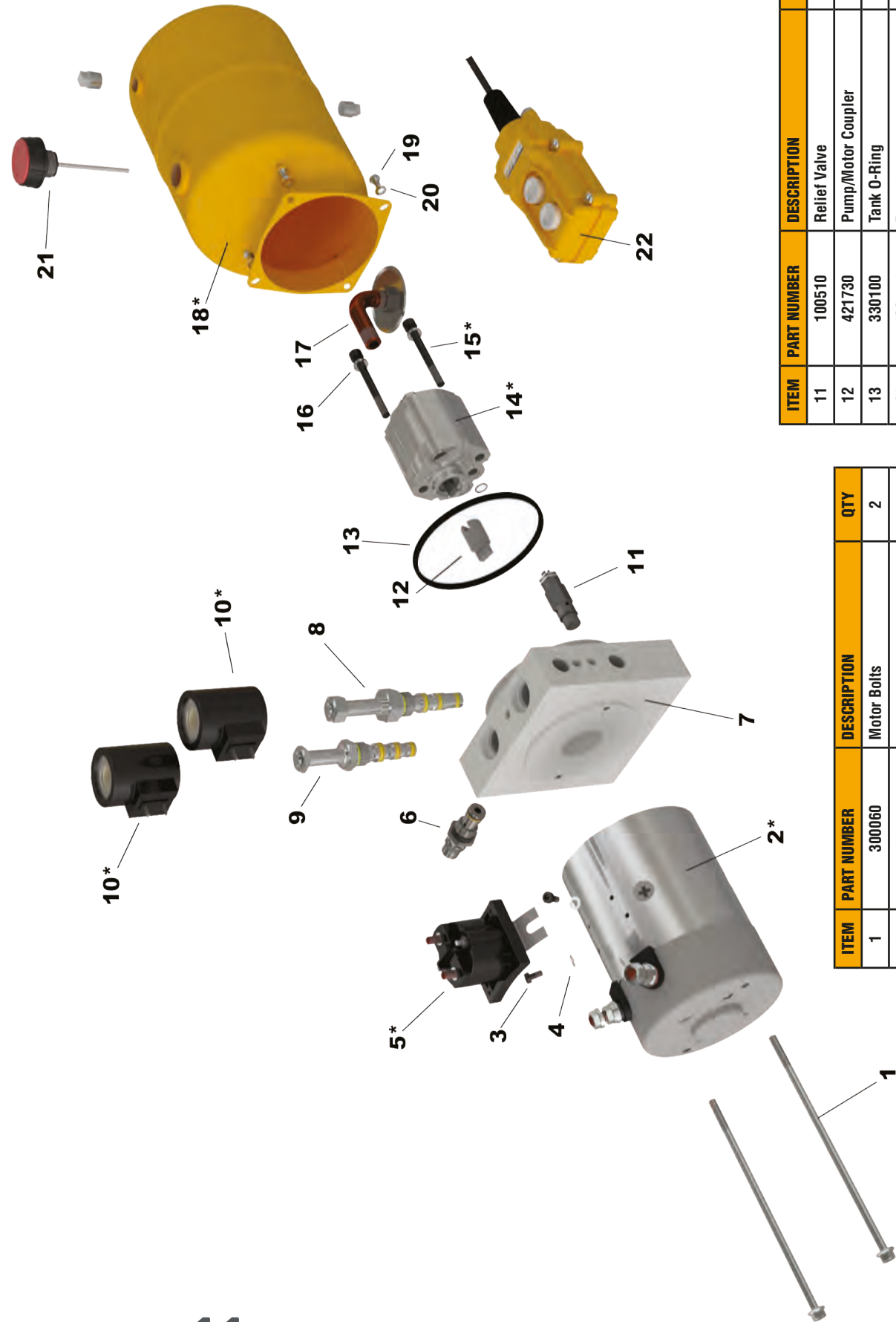
TYPICAL APPLICATION:

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



*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

EXPLODED VIEW



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	630100	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

* Items such as motor, pump, bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



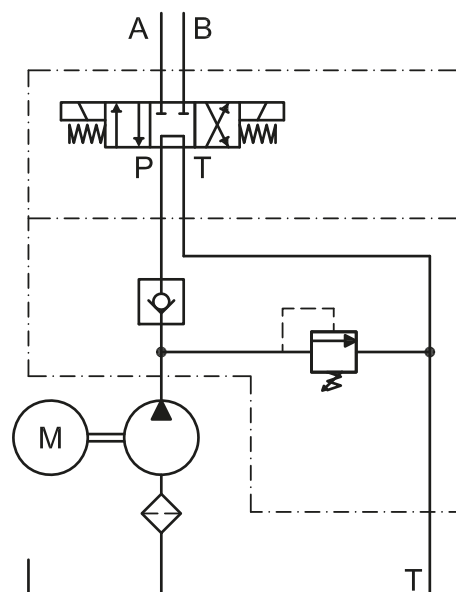
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3 position modular valve (D03) that can be combined with other modular options such as piloted check valves, flow control or even pressure relief valve (See p.42 for all of our components). This circuit also has a cartridge check valve and adjustable relief valve. The magnetic two button remote control comes with 6 meters of cable, which has a quick connect at the motor. 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, 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

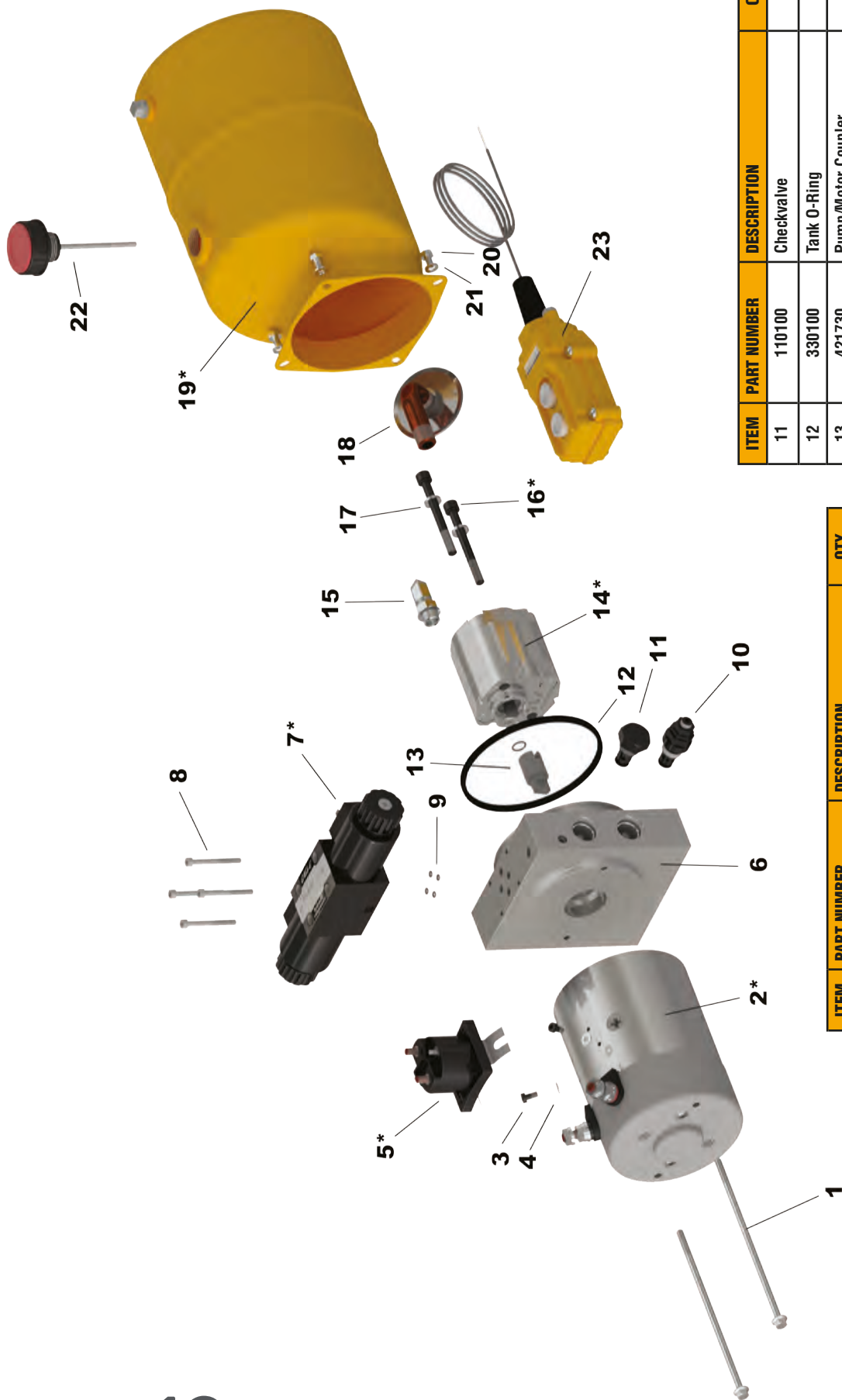
TYPICAL APPLICATION:

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



*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

EXPLODED VIEW



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	310067	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

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	122xxx*	Solenoid Valve D03*	1
8	300500	Valve Bolts	4
9	330110	Valve O-Ring	4
10	111000	Relief Valve	1

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



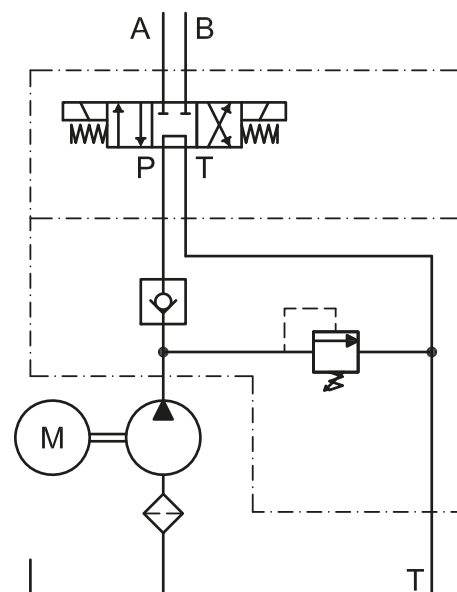
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3 position modular valve (D02) that can be combined with other modular options such as piloted check valves, flow control or even pressure relief valve (See p.42 for all of our components). This circuit also has a cartridge check valve and adjustable relief valve. The magnetic two button remote control comes with 6 meters of cable, which has a quick connect at the motor. 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, 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

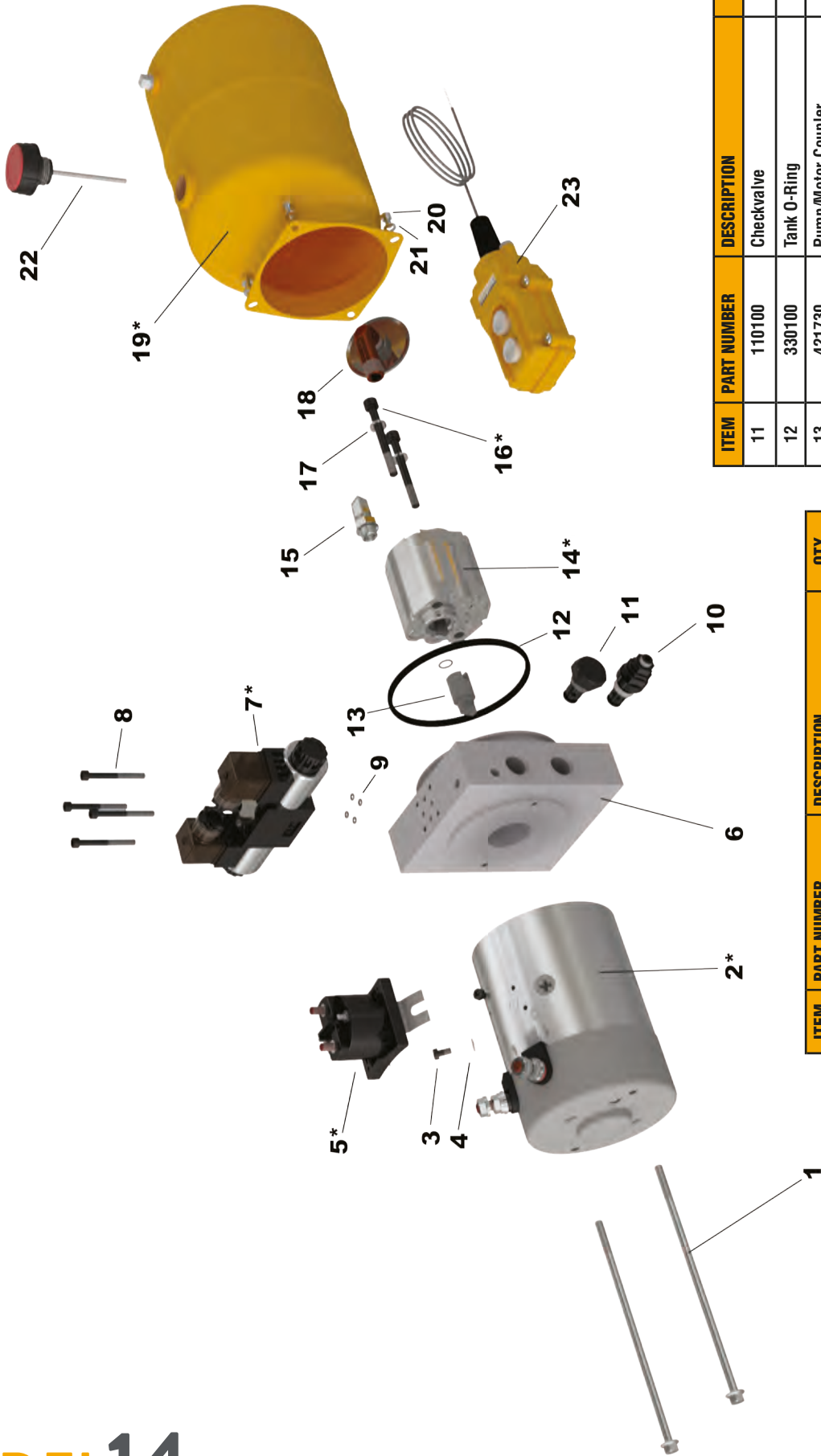
TYPICAL APPLICATION:

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



*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

EXPLODED VIEW



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	121xxx*	Solenoid Valve D02*	1
8	300500	Valve Bolts	4
9	330130	Valve O-Ring	4
10	111000	Relief Valve	1

* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the 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	310067	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



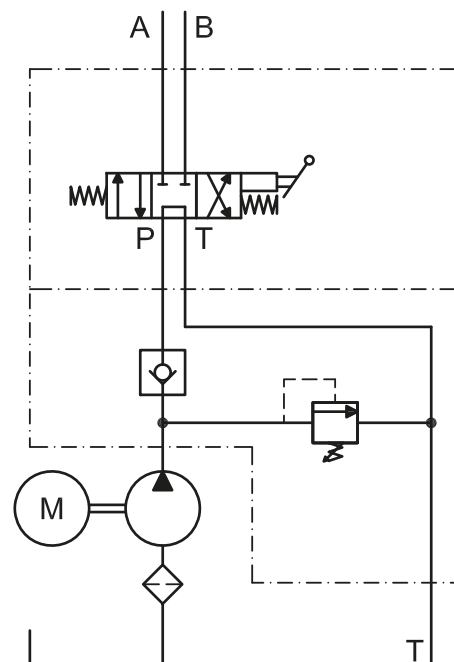
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3-position manual modular valve (D03) can be combined with other modular options such as piloted check valves, flow control or even port pressure relief (See p.42 for all of our components). This circuit has a cartridge check valve 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, 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



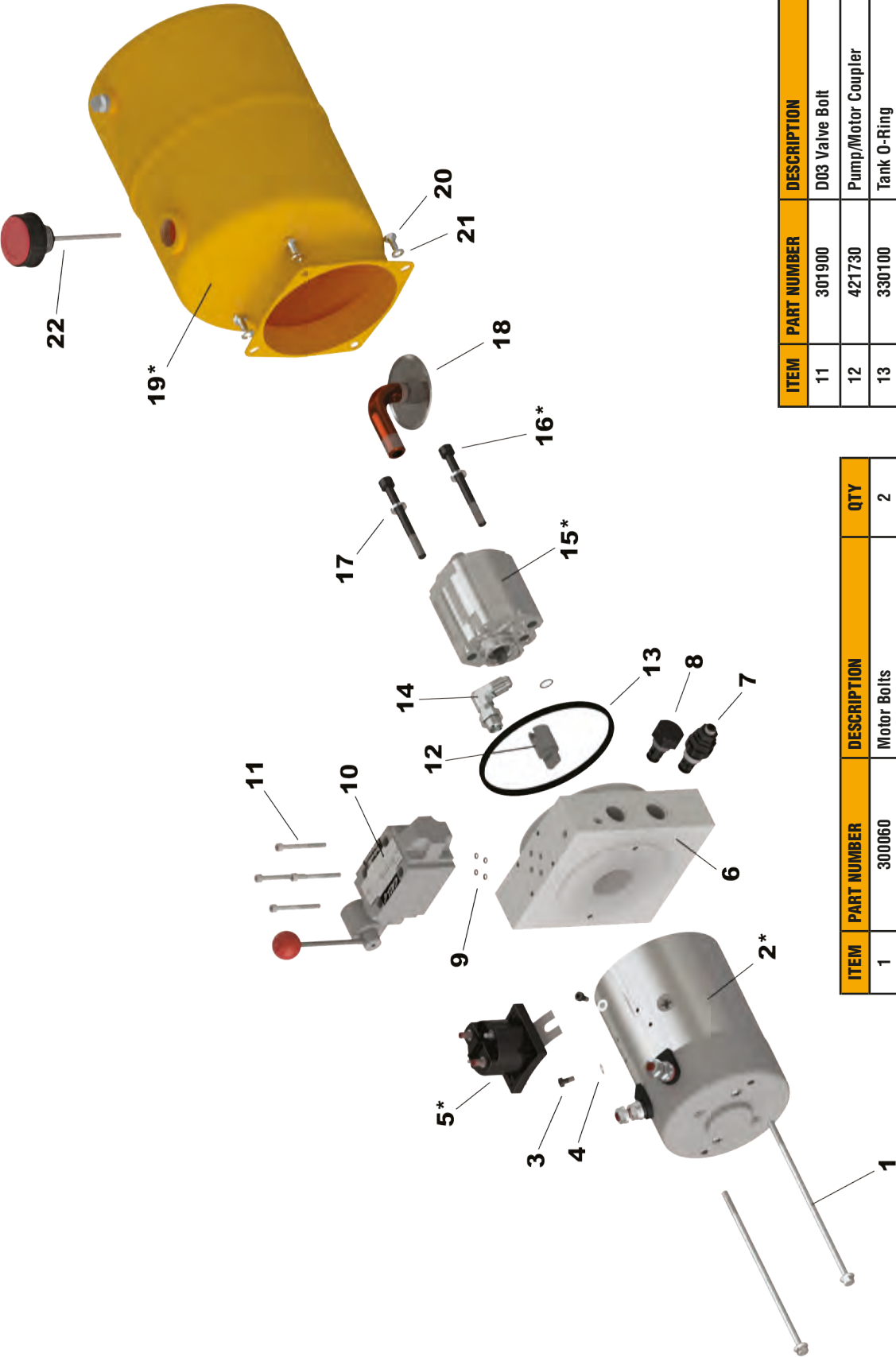
*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

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

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EXPLODED VIEW



ITEM	PART NUMBER	DESCRIPTION	QTY
11	301900	D03 Valve Bolt	4
12	421730	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	310067	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, bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.



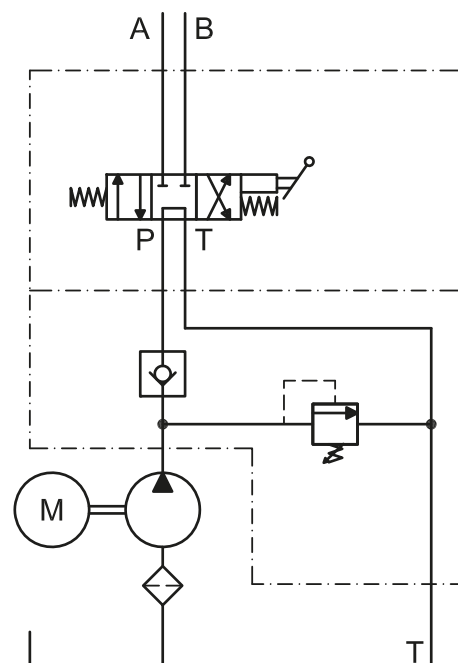
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3 position modular valve (D02), that can be combined with other modular options such as piloted check valves, flow control or even port pressure relief valve (See p.42 for all of our components). This circuit has a cartridge check valve 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, 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



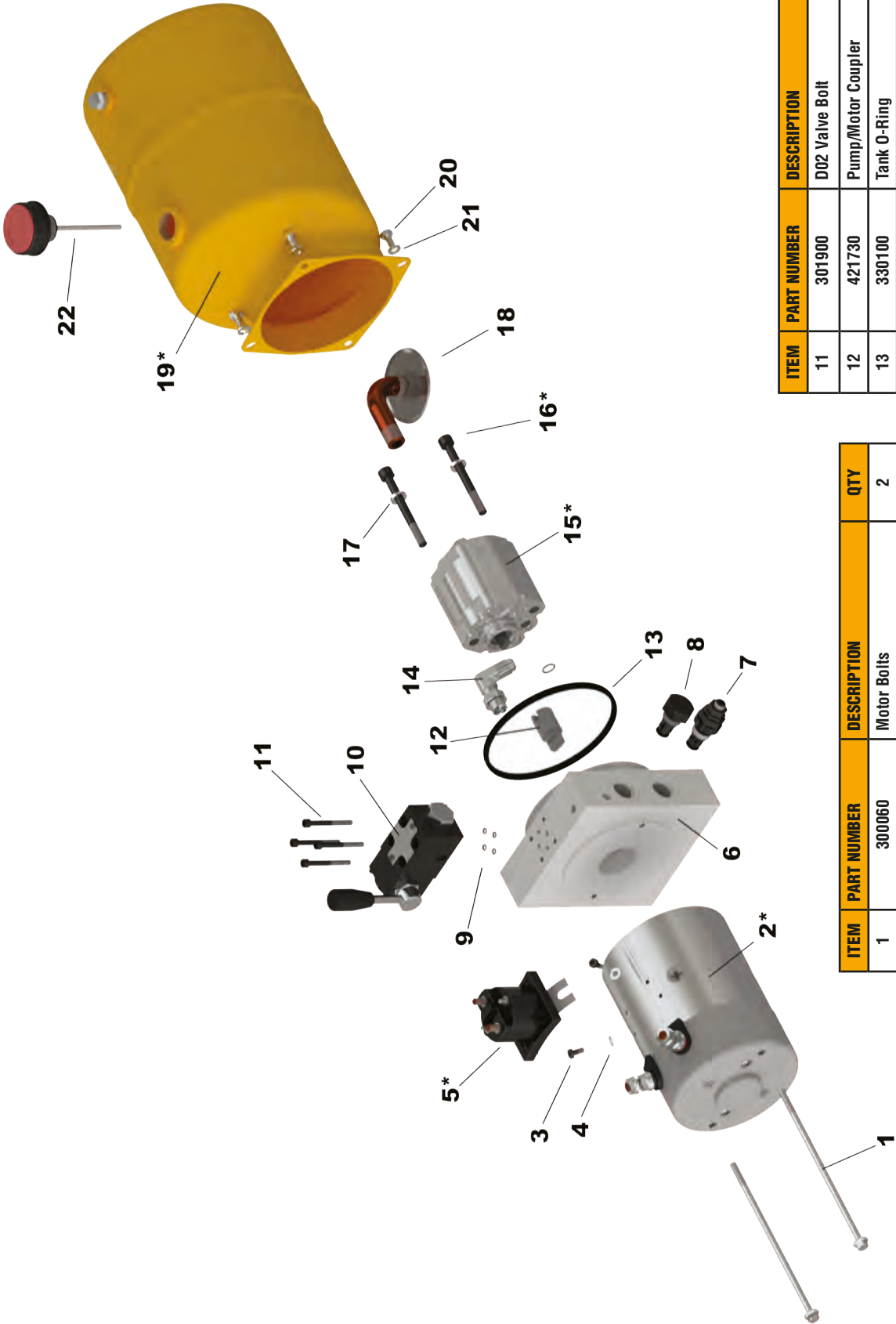
*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

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

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EXPLODED VIEW



ITEM	PART NUMBER	DESCRIPTION	QTY
11	301900	D02 Valve Bolt	4
12	421730	Pump/Motor Coupler	1
13	330100	Tank O-Ring	1
14	310067	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

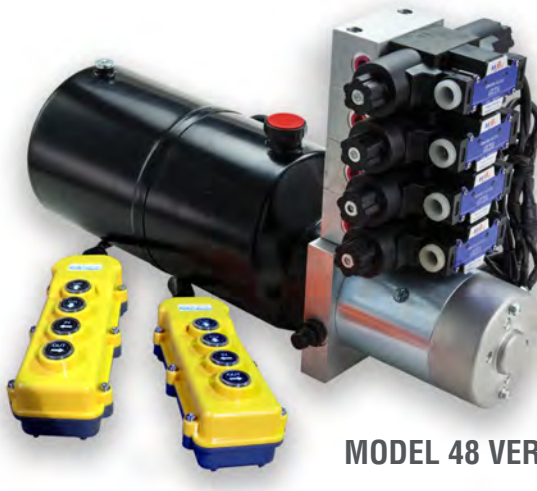
ITEM	PART NUMBER	DESCRIPTION	QTY
1	300060	Motor Bolts	2
2	600xxx*	Motor*	1
3	300010	Solenoid Bolt	2
4	307000	Solenoid Washer	2
5	640xxx*	Solenoid*	1
6	210140	Block	1
7	111000	Relief Valve	1
8	110100	Checkvalve	1
9	330110	Valve O-Ring	4
10	122030	D02 Manual Valve	1

* Items such as motor, pump, bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.

MODEL 24 HORIZONTAL



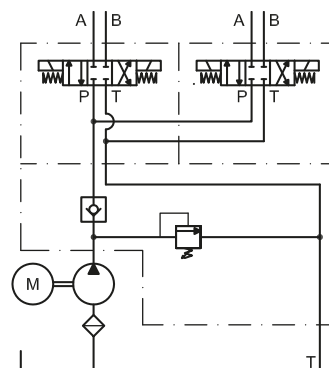
MODEL 48 VERTICAL



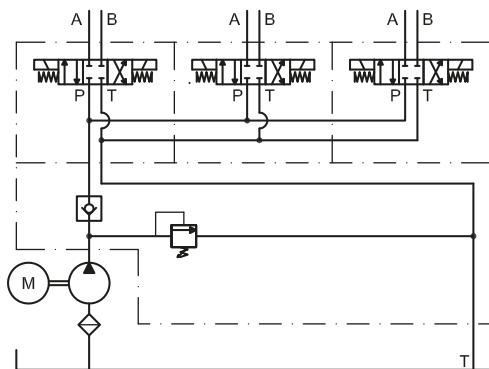
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3 position modular valve (D03) that can be stacked and combined with other modular options such as piloted check valves, flow control or even pressure relief valve (See p.42 for all of our components). This circuit also has a cartridge check valve 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 attached 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:

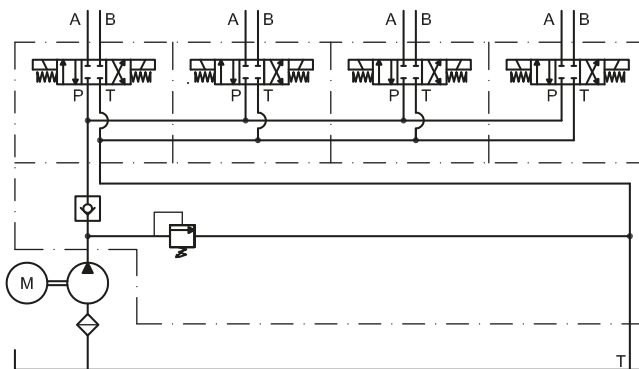
- **Motor:** DC 12/24V, AC 115/230V Single Phase
or AC 230/460/575V Three Phase
- **Tank:** From 1.7 liters to 23.5 liters, Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- **Valve Mounting:** Vertical or Horizontal



MODEL 24



MODEL 36



MODEL 48

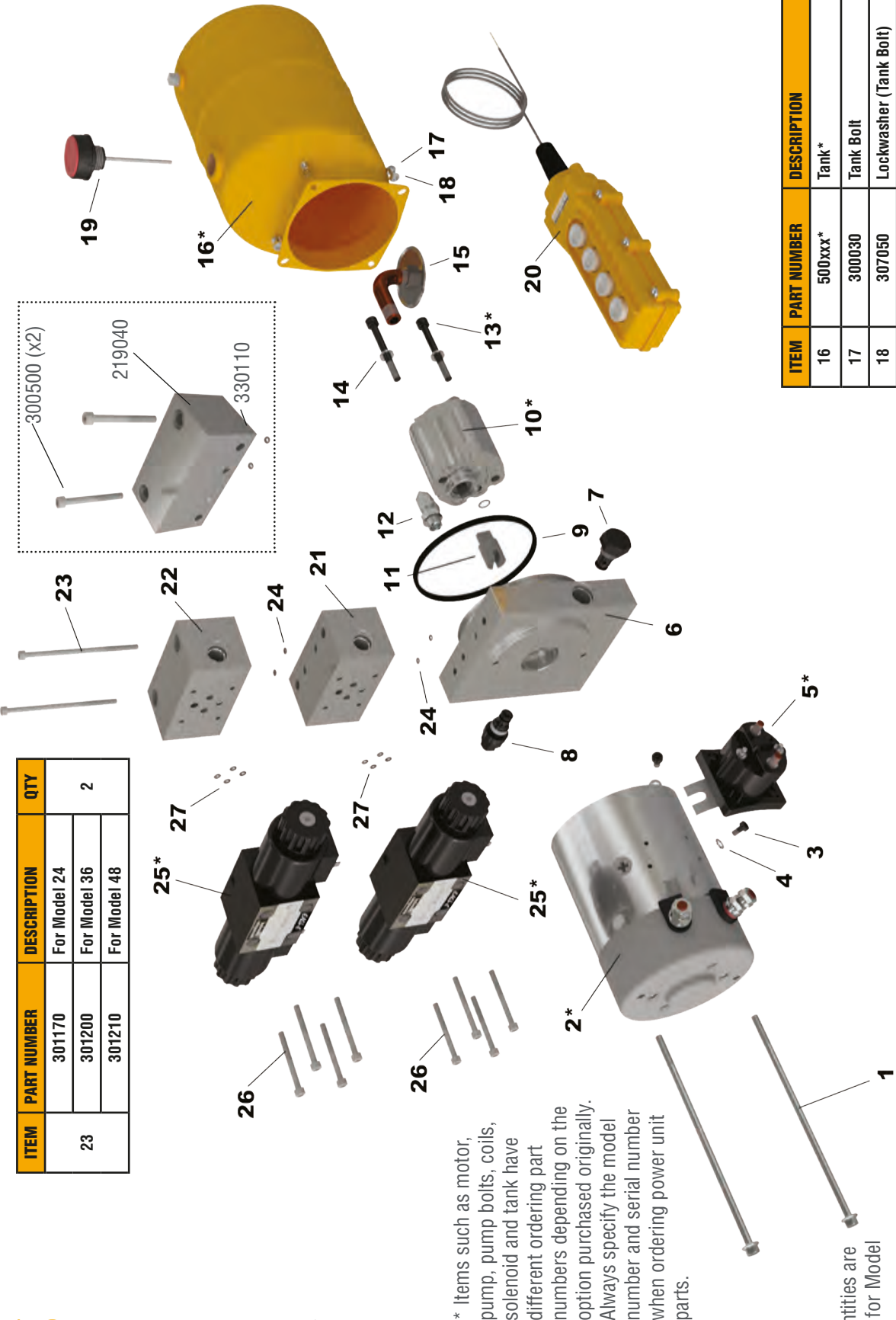
*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

EXPLODED VIEW

FOR HORIZONTAL VALVE MOUNTING OPTION

BOLT CHART

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



* Items such as motor, pump, pump bolts, coils, solenoid and tank have different ordering part numbers depending on the option purchased originally. Always specify the model number and serial number when ordering power unit parts.

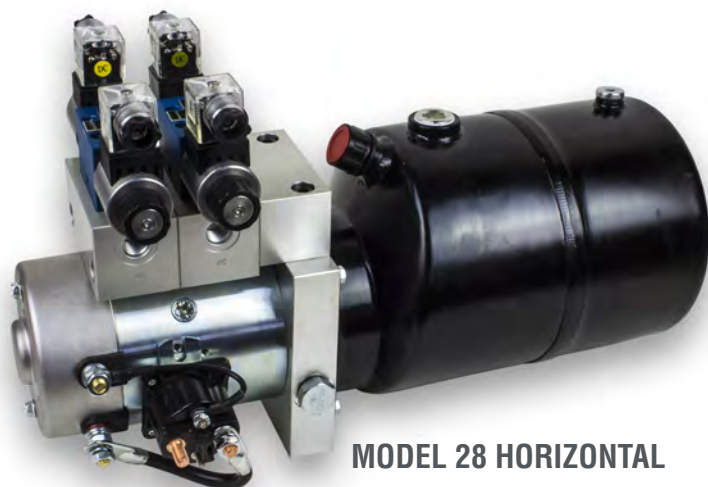
Quantities are only for Model 24.

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
8	111000	Relief Valve	1
9	330100	Tank O-Ring	1
10	400xxx*	Pump*	1
11	421000	Motor Coupler	1
12	310067	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
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

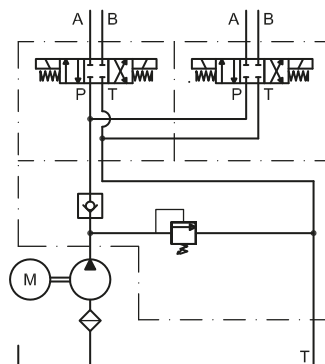
MODEL 24,36,48



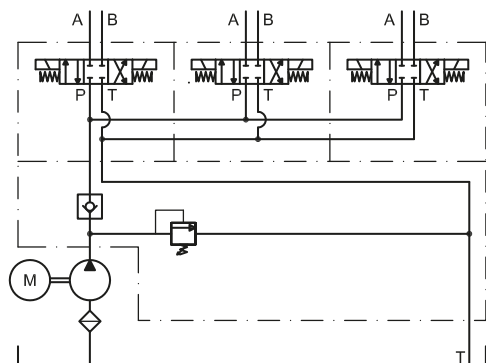
This power unit has a double acting circuit with SAE 6 (9/16-18) A & B ports. The 4-way, 3 position modular valve (D02) that can be stacked and combined with other modular options such as piloted check valves, flow control or even pressure relief valve (See p.42 for all of our components). This circuit also has a cartridge check valve 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 attached 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:

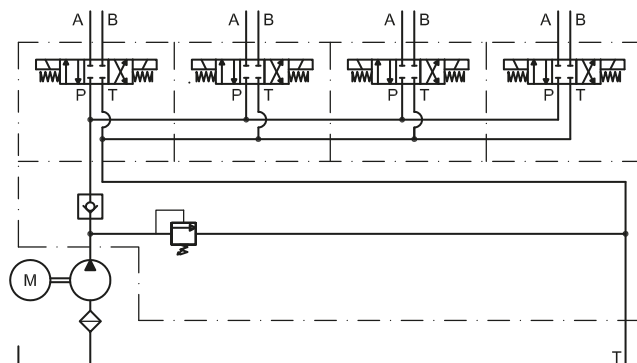
- **Motor:** DC 12/24V, AC 115/230V Single Phase
or AC 230/460/575V Three Phase
- **Tank:** From 1.7 liters to 23.5 liters, Plastic or Steel
- **Pump:** 0.8, 1.0, 1.3, 1.6, 2.1, 2.5, 3.2, 4.2, 5.8 and 8.0cc
- **Mounting:** Vertical or Horizontal
- **Valve Mounting:** Vertical or Horizontal



MODEL 28



MODEL 42



MODEL 56

*Power units with AC motors are not provided with remote controls or methods to activate the motor or valves

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

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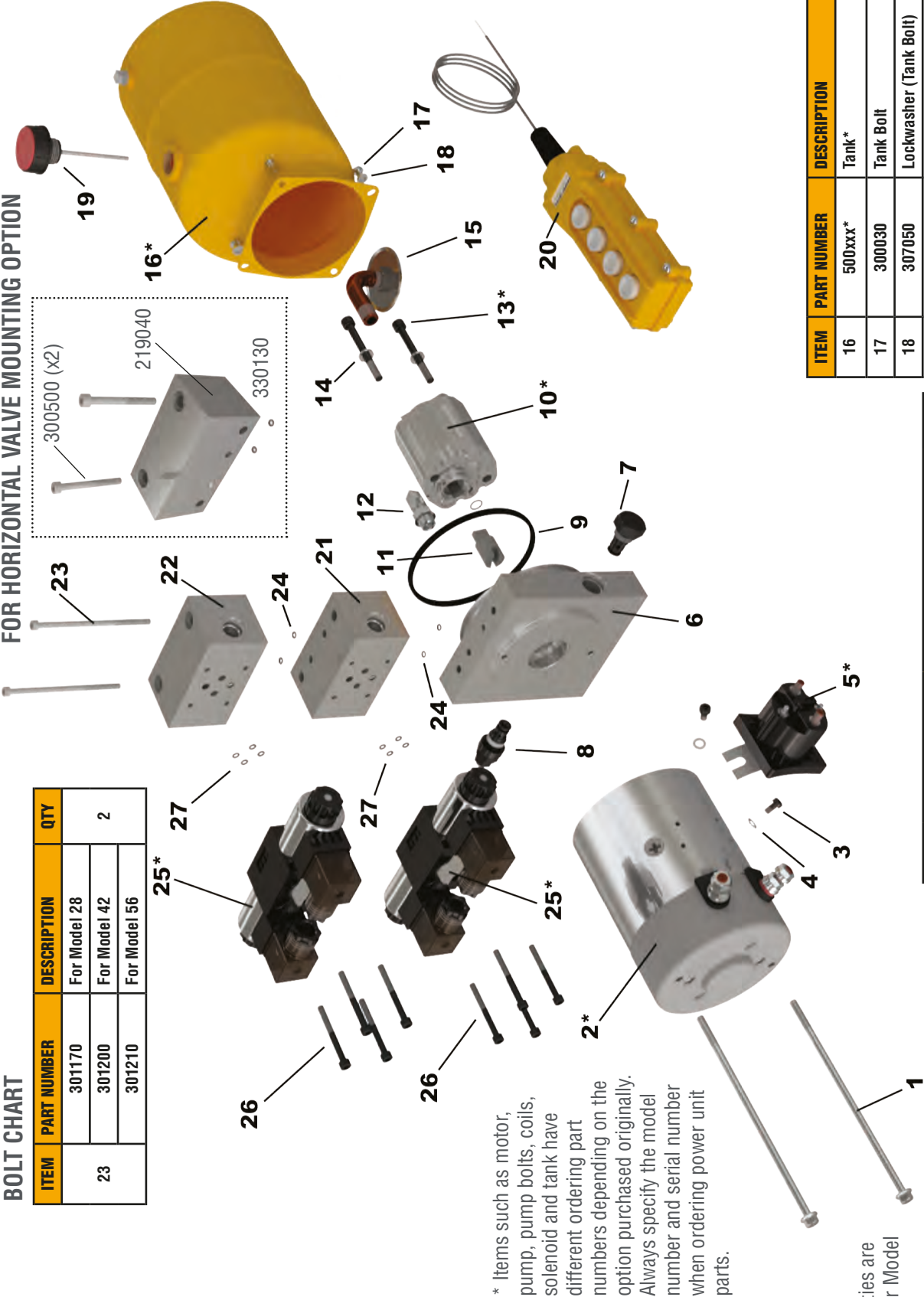
EXPLODED VIEW

FOR HORIZONTAL VALVE MOUNTING OPTION

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

BOLT CHART

MODEL 28,42,56



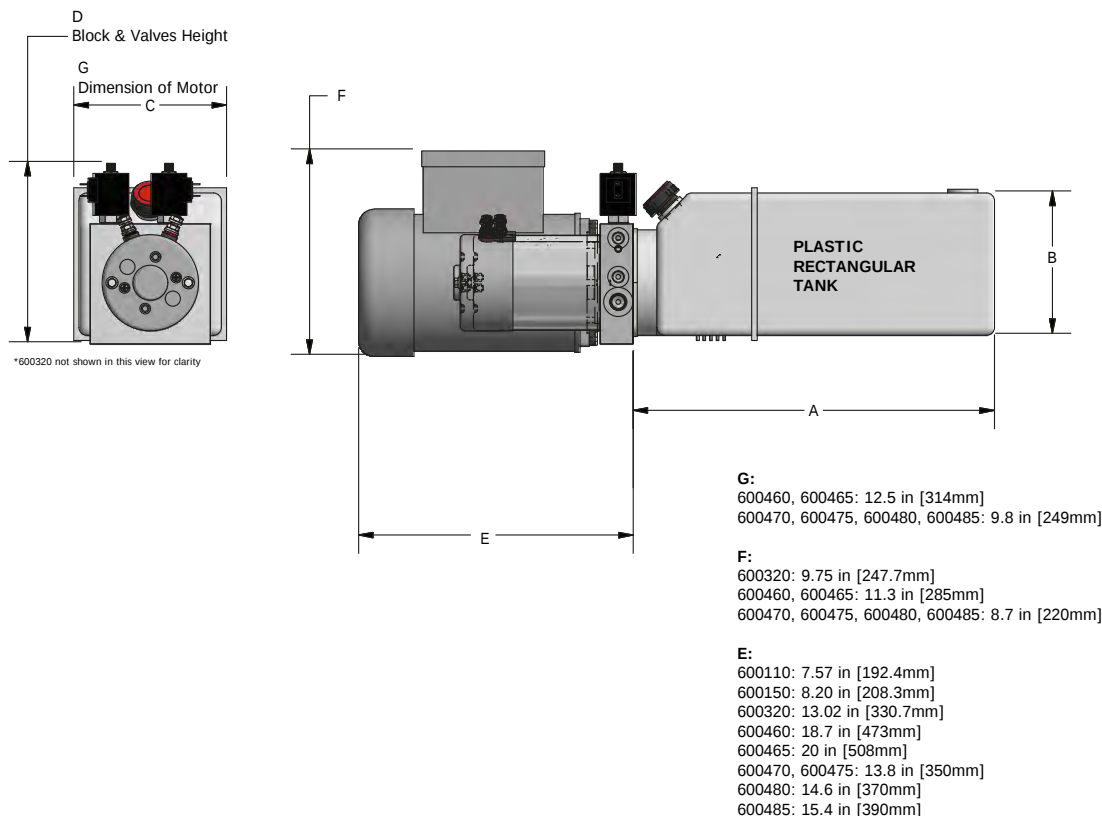
Quantities are only for Model 28.

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
8	111000	Relief Valve	1
9	330100	Tank O-Ring	1
10	400xxx*	Pump*	1
11	421000	Motor Coupler	1
12	310067	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
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



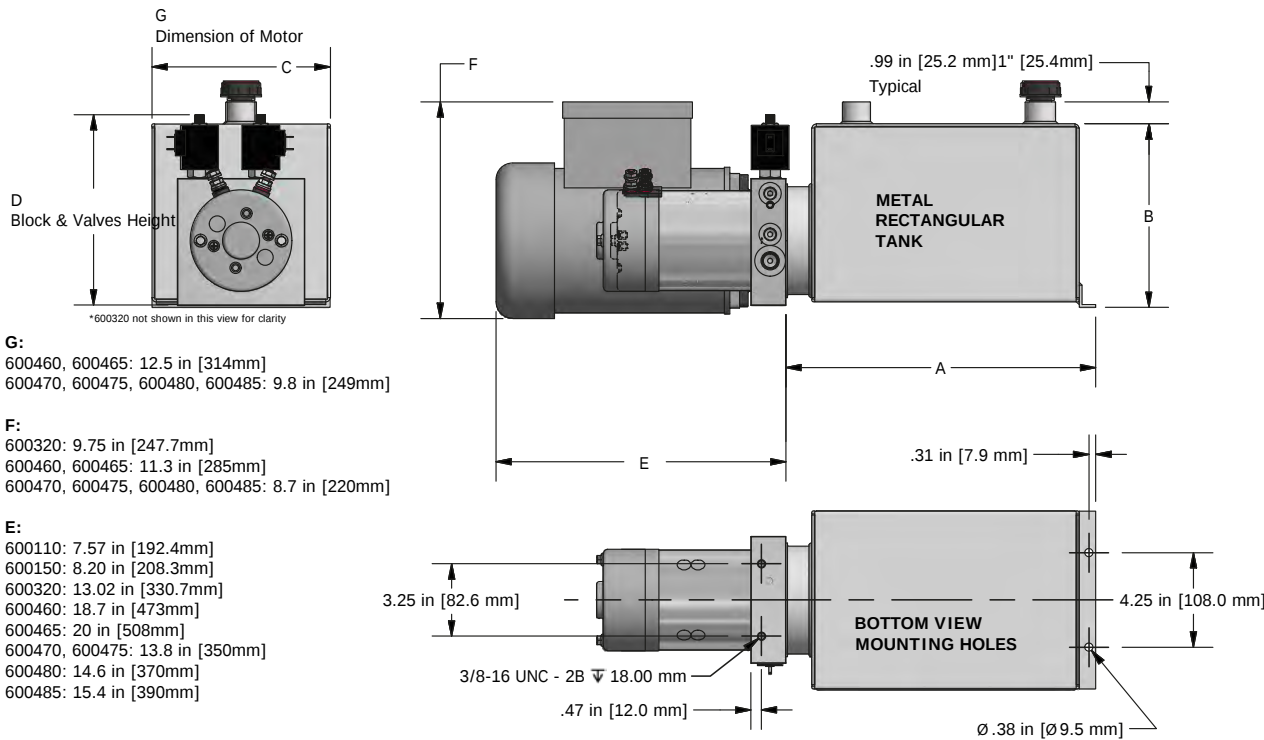
PART NUMBER	USABLE VOLUMES			DIMENSIONS		
	LITER	US GALLONS	QUARTS	A (LENGTH)	B (HEIGHT)	C (WIDTH)
510020 [B]	4.0	1.06	4.23	7.88" [200.0mm]	6.75" [171.5mm]	6.75" [171.5mm]
510030 [C]	5.0	1.32	5.28	11.42" [290.0mm]		
510050 [D]	6.0	1.59	6.34	13.18" [335.0mm]		
510060 [F]	8.0	2.12	8.45	17.32" [440.0mm]		
510070 [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]		
510090 [H]	22.7	6.0	24	17.39" [441.6mm]	10.86" [275.8mm]	10.50" [266.7mm]

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]
14	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



G:
600460, 600465: 12.5 in [314mm]
600470, 600475, 600480, 600485: 9.8 in [249mm]

F:
600320: 9.75 in [247.7mm]
600460, 600465: 11.3 in [285mm]
600470, 600475, 600480, 600485: 8.7 in [220mm]

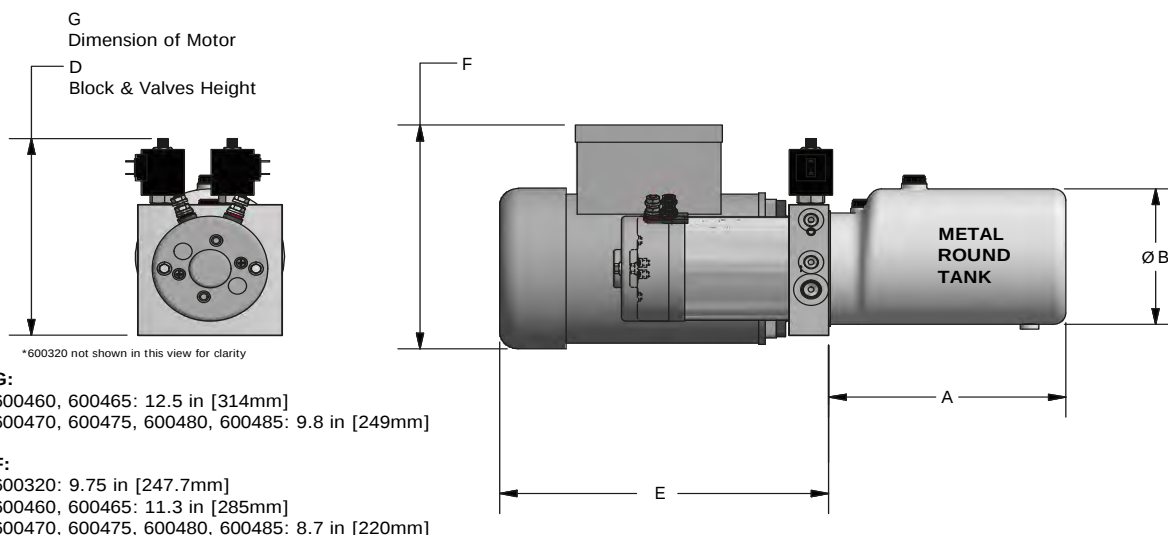
E:
600110: 7.57 in [192.4mm]
600150: 8.20 in [208.3mm]
600320: 13.02 in [330.7mm]
600460: 18.7 in [473mm]
600465: 20 in [508mm]
600470, 600475: 13.8 in [350mm]
600480: 14.6 in [370mm]
600485: 15.4 in [390mm]

PART NUMBER	USABLE VOLUMES			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]
500150 [Z]	23.60	6.25	25.0	20.92" [531.4mm]	5.625" [142.9mm]	16.00" [406.4mm]
500160 [Y]	26.50	7.0	28.0	13.92" [353.6mm]	12.75" [323.85mm]	13.00" [330.2mm]
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]
14	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]



G:
600460, 600465: 12.5 in [314mm]
600470, 600475, 600480, 600485: 9.8 in [249mm]

F:
600320: 9.75 in [247.7mm]
600460, 600465: 11.3 in [285mm]
600470, 600475, 600480, 600485: 8.7 in [220mm]

E:
600110: 7.57 in [192.4mm]
600150: 8.20 in [208.3mm]
600320: 13.02 in [330.7mm]
600460: 18.7 in [473mm]
600465: 20 in [508mm]
600470, 600475: 13.8 in [350mm]
600480: 14.6 in [370mm]
600485: 15.4 in [390mm]

PART NUMBER	USABLE VOLUMES			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]
14	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 (Full Load AMPS including S.F.)

MOTOR 12V - 2.14HP, 1.6KW, 2500 RPM - COMPOUND WOUND (2.5MIN), 4 POLES [600110]

	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	3.75	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									

MOTOR 12V LONG DUTY BLACK - 2.14HP, 1.6KW, 2500 RPM - SERIES WOUND (7 MIND, 4 POLES [600120])

	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	5.8	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 24V - 2.68HP, 2.0KW, 2500RPM (2.5 MIN) - [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						

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

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	Exceeds Amperage Available for Testing
	Non-Conducted Test
	Exceeds Maximum Motor Amperage (Full Load AMPS including S.F.)



MOTOR 115V - 1HP, 0.75KW, 1PH, 3600 RPM, S1 [600470]

	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	3.33	0.88	6.6	3.7	0.98	6.7	5.29	1.4	6.5	7.3	1.93	6.7	8.58	2.27	6.6	10.8	2.87	6.8	13.9	3.67	6.9						
250	3.33	0.88	6.8	3.63	0.96	6.9	5.1	1.35	7	7.07	1.87	7.3	8.43	2.23	7.7	10.7	2.84	8.9	13.5	3.57	11.2						
500	3.33	0.88	7	3.48	0.92	7.1	5.07	1.34	7.6	6.99	1.85	8.1	8.32	2.2	9.2	10.6	2.81	10.7	12.9	3.41	17.2						
750	3.33	0.88	7.4	3.4	0.9	7.6	4.99	1.32	8.5	6.92	1.83	9.4	8.2	2.17	10.9	10.4	2.74	13.5	12.2	3.23	22.3						
1000	3.33	0.88	7.9	3.33	0.88	8.4	4.91	1.3	9.4	6.8	1.8	11	8.09	2.14	13	10.2	2.7	16.6									
1250	3.33	0.88	8.7	3.18	0.84	9.2	4.84	1.28	10.6	6.69	1.77	13.1	7.75	2.05	18.2												
1500	3.33	0.88	9.4	3.1	0.82	10.3	4.76	1.26	12.2	6.54	1.73	15.7	7.18	1.9	22.8												
1750	3.33	0.88	10	3.02	0.8	11.2	4.69	1.24	13.8	6.43	1.7	18.4															
2000	3.33	0.88	10.9	3.02	0.8	12.7	4.57	1.21	15.8	6.12	1.62	22.6															
2250	3.33	0.88	12	2.84	0.75	13.5	4.42	1.17	17.9																		
2500	3.25	0.86	13	2.72	0.72	15.2	4.2	1.11	23.2																		
2750	3.1	0.82	14	2.72	0.72	16.8																					
3000	3.02	0.8	15.2	2.65	0.7	19.2																					

MOTOR 115V - 2HP, 1.5KW, 1PH, 3600 RPM, S1 [600480]

	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	3.25	0.86	7.1	3.7	0.98	7.1	5.03	1.33	6.8	7.18	1.9	6.6	8.58	2.27	7	10.9	2.88	7.2	14	3.7	7.5						
250	3.25	0.86	7.3	3.7	0.98	7.2	4.88	1.29	7.6	6.99	1.85	7.7	8.28	2.19	8.3	10.7	2.84	9.1	13.7	3.63	11.3						
500	3.25	0.86	7.4	3.7	0.98	7.5	4.83	1.28	8.3	6.96	1.84	8.7	8.2	2.17	9.9	10.7	2.84	11	13.6	3.6	14.8						
750	3.25	0.86	7.9	3.67	0.97	7.8	4.79	1.27	9.2	6.92	1.83	9.9	8.16	2.16	11.1	10.6	2.81	13.6	13.5	3.57	18.4						
1000	3.25	0.86	8.4	3.55	0.94	8.4	4.75	1.26	10.2	6.84	1.81	11.4	8.09	2.14	14	10.5	2.77	16.9	13.3	3.51	23.3						
1250	3.25	0.86	9	3.4	0.9	9.1	4.73	1.25	11.4	6.8	1.8	13.2	8.01	2.12	16.4	10.3	2.73	19.7	12.3	3.26	42.3						
1500	3.25	0.86	9.8	3.36	0.89	9.9	4.69	1.24	12.6	6.73	1.78	15.6	7.9	2.09	19.8	10.2	2.7	24.2									
1750	3.25	0.86	10.6	3.36	0.89	10.8	4.65	1.23	14	6.69	1.77	17.5	7.82	2.07	22.6	10	2.65	28.1									
2000	3.25	0.86	11.4	3.36	0.89	11.7	4.54	1.2	16.5	6.62	1.75	20.1	7.67	2.03	27.1	9.64	2.55	36.5									
2250	3.25	0.86	12.4	3.25	0.86	12.7	4.54	1.2	18.1	6.54	1.73	22.4	7.56	2	29.2												
2500	3.14	0.83	13.4	3.18	0.84	13.8	4.42	1.17	19.4	6.43	1.7	25.8	7.18	1.9	40.4												
2750	3.1	0.82	14.6	3.1	0.82	15	4.42	1.17	20.9	6.35	1.68	28.9															
3000	3.02	0.8	16.7	3.02	0.8	16.1	4.38	1.16	22.9	6.31	1.67	34.2															

MOTOR 115V - 3HP, 2.24KW, 1PH, 3600 RPM, S1 [600490]

	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	3.59	0.95	4.5	3.78	1	4.3	5.07	1.34	4.55	7.03	1.86	5.3	8.39	2.22	4.5	10.9	2.89	5.1	14.7	3.88	5.8						
250	3.55	0.94	5.4	3.78	1	5.1	4.88	1.29	6.48	6.8	1.8	8	8.24	2.18	7.3	10.7	2.82	8.5	14.4	3.81	10.9						
500	3.55	0.94	5.9	3.78	1	5.7	4.84	1.28	7.53	6.73	1.78	9.6	8.2	2.17	9.3	10.6	2.8	11.1	14.3	3.77	14.2						
750	3.55	0.94	7	3.78	1	6.8	4.8	1.27	8.58	6.69	1.77	11.2	8.16	2.16	11.2	10.5	2.78	13.3	14.1	3.72	18.9						
1000	3.55	0.94	7.7	3.78	1	7.8	4.73	1.25	10.1	6.62	1.75	13.4	8.13	2.15	12.9	10.4	2.76	16.2	13.9	3.67	22.1						
1250	3.55	0.94	8.7	3.78	1	8.9	4.73	1.25	10.8	6.46	1.71	15.2	8.05	2.13	15.4	10.4	2.74	19.2	13.6	3.61	28.7						
1500	3.44	0.91	9.5	3.7	0.98	10.4	4.69	1.24	12.1	6.46	1.71	17	7.98	2.11	18	10.2	2.71	21.4	13.4	3.54	35.5						
1750	3.44	0.91	10.3	3.7	0.98	11.2	4.65	1.23	13.4	6.43	1.7	19.5	7.94	2.1	20.7	10.1	2.67	26.8	13	3.45	43.2						
2000	3.4	0.9	10.9	3.7	0.98	12.4	4.61	1.22	14.6	6.39	1.69	21.8	7.82	2.07	24.3	9.87	2.61	33.9									
2250	3.36	0.89	11.2	3.63	0.96	14.4	4.57	1.21	15.6	6.31	1.67	23.9	7.79	2.06	26.7	9.71	2.57	39.2									
2500	3.33	0.88	12.9	3.48	0.92	16.4	4.54	1.2	16.8	6.24	1.65	27.5	7.67	2.03	31.4	9.37	2.48	49.4									
2750	3.18	0.84	13.7	3.4	0.9	17.8	4.5	1.19	18.1	6.16	1.63	28.9	7.56	2	34.9												
3000	3.18	0.84	14.9	3.4	0.9	19.8	4.35	1.15	19.5	6.05	1.6	33	7.45	1.97	40.8												



MOTOR PERFORMANCE CHART



	Exceeds Amperage Available for Testing
	Non-Conducted Test
	Exceeds Maximum Motor Amperage (Full Load AMPS including S.F.)

MOTOR 220V - 1HP, 0.75KW, 1PH, 3600 RPM, S1 [600470]



	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	3.4	0.9	1.8	3.7	0.98	1.8	4.16	1.1	1.8	7.22	1.91	1.9	8.58	2.27	1.9	10.8	2.87	2.1	14	3.7	2.6						
250	3.4	0.9	2.2	3.7	0.98	2.1	5.07	1.34	2.6	7.03	1.86	2.8	8.35	2.21	3.4	10.7	2.83	4.1	13.2	3.5	6.1						
500	3.4	0.9	2.5	3.7	0.98	2.5	5.03	1.33	3.2	6.92	1.83	3.7	8.24	2.18	4.5	10.5	2.78	5.4	12.1	3.2	10.9						
750	3.4	0.9	3	3.7	0.98	2.9	4.91	1.3	3.9	6.84	1.81	4.6	8.13	2.15	5.7	10.2	2.7	7.4									
1000	3.4	0.9	3.5	3.7	0.98	3.4	4.88	1.29	4.6	6.73	1.78	5.8	7.94	2.1	7.3	9.83	2.6	9.6									
1250	3.4	0.9	4	3.7	0.98	4	4.8	1.27	5.6	6.54	1.73	7.3	7.18	1.9	12.4												
1500	3.4	0.9	4.7	3.7	0.98	4.6	4.65	1.23	6.8	6.31	1.67	9.2															
1750	3.4	0.9	5.2	3.59	0.95	5.2	4.54	1.2	7.8	6.05	1.6	11.3															
2000	3.4	0.9	5.9	3.52	0.93	5.9	4.38	1.16	9.2																		
2250	3.36	0.89	6.6	3.4	0.9	6.7	4.16	1.1	11.5																		
2500	3.33	0.88	7.4	3.33	0.88	7.5																					
2750	3.18	0.84	8.3	3.21	0.85	8.7																					
3000	3.02	0.8	9.7	3.02	0.8	10.9																					

MOTOR 220V - 2HP, 1.5KW, 1PH, 3600 RPM, S1 [600480]



	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	3.4	0.9	1.7	3.7	0.98	1.8	5.18	1.37	1.8	7.22	1.91	2	8.51	2.25	2	11	2.9	2.4	14.6	3.85	2.9								
250	3.4	0.9	2.1	3.7	0.98	2.1	4.95	1.31	2.8	6.96	1.84	3.2	8.35	2.21	3.3	10.7	2.82	4.2	14	3.7	5.7								
500	3.4	0.9	2.4	3.7	0.98	2.5	4.91	1.3	3.3	6.88	1.82	4	8.32	2.2	4.3	10.7	2.82	5.7	13.6	3.6	8.4								
750	3.4	0.9	3	3.67	0.97	3	4.91	1.3	4	6.84	1.81	4.9	8.2	2.17	5.5	10.6	2.8	7.2	13.5	3.56	10.7								
1000	3.4	0.9	3.5	3.63	0.96	3.5	4.84	1.28	4.7	6.8	1.8	5.8	8.13	2.15	6.8	10.4	2.74	9.4	13.2	3.5	13.6								
1250	3.4	0.9	4.1	3.48	0.92	4.1	4.76	1.26	5.9	6.65	1.76	8.2	8.05	2.13	8.2	10.3	2.72	10.6	12.7	3.37	18.4								
1500	3.4	0.9	4.7	3.48	0.92	4.7	4.73	1.25	6.6	6.65	1.76	8.5	7.94	2.1	10.1	10	2.65	13.5											
1750	3.33	0.88	5.3	3.4	0.9	5.2	4.69	1.24	7.4	6.58	1.74	9.6	7.79	2.06	11.9	9.71	2.57	16.7											
2000	3.25	0.86	5.7	3.4	0.9	5.8	4.61	1.22	8.5	6.5	1.72	11.2	7.64	2.02	14.2	9.07	2.4	22.7											
2250	3.21	0.85	6.5	3.36	0.89	6.4	4.57	1.21	9.4	6.43	1.7	12.4	7.41	1.96	17														
2500	3.1	0.82	7.2	3.33	0.88	7.2	4.46	1.18	10.9	6.27	1.66	14.7	6.84	1.81	23.6														
2750	3.06	0.81	7.8	3.18	0.84	8.1	4.38	1.16	12.2	6.16	1.63	16.4																	
3000	3.02	0.8	8.7	3.1	0.82	8.7	4.31	1.14	13.3	6.05	1.6	19.2																	

MOTOR 220V - 3HP, 2.24KW, 1PH, 3600 RPM, S1 [600490]



	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	3.48	0.92	2.1	3.86	1.02	2	4.91	1.3	2.2	6.99	1.85	2.6	8.47	2.24	2.3	10.8	2.86	2.4	14.6	3.87	3.3						
250	3.48	0.92	2.6	3.86	1.02	2.7	4.76	1.26	3.42	6.8	1.8	4.2	8.2	2.17	4	10.8	2.85	4.5	14.3	3.78	6.2						
500	3.48	0.92	2.9	3.86	1.02	3.2	4.73	1.25	4.08	6.77	1.79	5.1	8.13	2.15	4.9	10.7	2.82	6	14.2	3.75	8.1						
750	3.48	0.92	3.4	3.86	1.02	4.1	4.65	1.23	4.78	6.69	1.77	5.9	8.09	2.14	6.1	10.6	2.8	7.3	13.9	3.68	10.4						
1000	3.48	0.92	4	3.86	1.02	4.9	4.61	1.22	5.66	6.62	1.75	7.4	8.01	2.12	7.3	10.4	2.76	9.1	13.7	3.63	12.7						
1250	3.48	0.92	4.4	3.86	1.02	5.6	4.57	1.21	6.08	6.58	1.74	8.1	7.94	2.1	8.4	10.4	2.74	10.6	13.5	3.57	15.7						
1500	3.48	0.92	4.9	3.86	1.02	6.2	4.54	1.2	6.62	6.5	1.72	9.1	7.94	2.1	9.8	10.2	2.69	12.7	13.1	3.47	19.7						
1750	3.36	0.89	5.4	3.78	1	6.9	4.5	1.19	7.31	6.43	1.7	10.3	7.86	2.08	11.3	10.1	2.67	14.5	12.7	3.36	23.9						
2000	3.33	0.88	6	3.7	0.98	7.5	4.46	1.18	7.91	6.35	1.68	11.8	7.75	2.05	13	9.9	2.62	17.5									
2250	3.33	0.88	6.5	3.63	0.96	8.3	4.42	1.17	8.55	6.24	1.65	12.9	7.67	2.03	14.6	9.71	2.57	20.2									
2500	3.18	0.84	6.8	3.55	0.94	9.7	4.38	1.16	9.29	6.12	1.62	14.9	7.56	2	17.1	9.34	2.47	25.4									
2750	3.1	0.82	7.5	3.33	0.88	9.9	4.35	1.15	9.97	6.05	1.6	16.1	7.48	1.98	19.2												
3000	3.1	0.82	8.1	3.33	0.88	10.9	4.31	1.14	10.7	5.9	1.56	18.7	7.37	1.95	21.6												



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

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	Exceeds Amperage Available for Testing
	Non-Conducted Test
	Exceeds Maximum Motor Amperage (Full Load AMPS including S.F.)

MOTOR 115V - 2HP, 1.5KW, 1PH, 3480 RPM, S3 [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, 2.24KW, 1PH, 3480 RPM, S3 [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																		



MOTOR PERFORMANCE CHART



	Exceeds Amperage Available for Testing
	Non-Conducted Test
	Exceeds Maximum Motor Amperage (Full Load AMPS including S.F.)

MOTOR 220V - 2HP, 1.5KW, 1PH, 3480 RPM, S3 [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 220V - 3HP, 2.24KW, 1PH, 3480 RPM, S3 [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												



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

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DC ELECTRIC MOTOR FOR POWER UNITS

- ▶ 600110 [12] - 12v 1.6 Kw/2 HP Standard.
- ▶ 600120 [11] - 12v 1.6 Kw/2 HP Long Duty - Powder Coated Black.
- ▶ 600210 [24] - 24v 2 Kw/2.6 HP Heavy Duty.



AC ELECTRIC MOTOR (TEFC)



- ▶ 600320 [115/220] - 115/220v 2HP/1.5Kw/1PH (3480RPM) - Intermittent Periodic Duty (S3).
- ▶ 600340 [116/221] - 115/220v 3HP/2.24Kw/1PH (3480RPM) - Intermittent Periodic Duty (S3).
- ▶ 600460 [600] - 575V 3HP/2.24Kw/3PH (3600RPM) - NEMA 182T - Continuous duty (S1).
- ▶ 600465 [683] - 575V 3HP/2.24Kw/3PH (1800RPM) - NEMA 182T - Premium Eff. - Continuous duty (S1).
- ▶ 600470 [110/111] - 115/220V 1HP/0.75Kw/1PH (3600RPM) - NEMA 56C - Continuous duty (S1).
- ▶ 600475 [181/281] - 115/220V 1HP/0.75Kw/1PH (1800RPM) - NEMA 56C - Continuous duty (S1).
- ▶ 600480 [114/219] - 115/220V 2HP/1.5Kw/1PH (3600RPM) - NEMA 56C - Continuous duty (S1).
- ▶ 600485 [182/282] - 115/220V 2HP/1.5Kw/1PH (1800RPM) - NEMA 56C - Continuous duty (S1).
- ▶ 600490 [117/222] - 115/220/460V 3HP/2.24Kw/1PH (3600RPM) - NEMA 56HC - Continuous duty (S1).
- ▶ 600510 [605] - 575V 5HP/3.73Kw/3PH (1800RPM) - NEMA 184T - Continuous duty (S1).
- ▶ 600530 - 575V 10HP/3PH (1800RPM) - NEMA 215T - Continuous duty (S1).



POWER UNIT SOLENOID

- ▶ 640040 - 12v.
- ▶ 640055 - 24v.



POWER UNIT GEAR PUMP

- ▶ 400010 [08] - 0.8 cc.
- ▶ 400020 [10] - 1.1 cc.
- ▶ 400040 [16] - 1.6 cc.
- ▶ 400050 [20] - 2.1 cc.
- ▶ 400060 [25] - 2.5 cc.
- ▶ 400080 [32] - 3.2 cc.
- ▶ 400090 [42] - 4.2 cc.
- ▶ 400100 [58] - 5.8 cc.
- ▶ 400110 [80] - 8.0 cc.

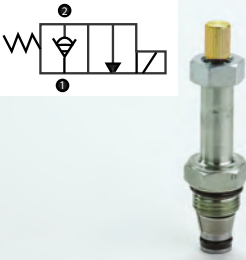
* We also offer clockwise pumps. The ones listed here are counter-clockwise.



SUCTION STRAINER

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



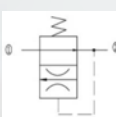
	STEEL ROUND RESERVOIR 1.5 MM THICK ▶ 500010 [M] - 1.70 L (0.45 Gal.). ▶ 500020 [N] - 2.80 L (0.74 Gal.). ▶ 500030 [O] - 3.90 L (1.03 Gal.). ▶ 500040 [P] - 5.00 L (1.32 Gal.). ▶ 500060 [Q] - 6.00 L (1.58 Gal.). ▶ 500070 [R] - 8.00 L (2.11 Gal.). ▶ 500080 [S] - 10.00 L (2.64 Gal.). ▶ 500090 [T] - 12.00 L (3.17 Gal.). ▶ 500100 [U] - 14.00 L (3.70 Gal.).
	SQUARE PLASTIC RESERVOIR 5MM THICK ▶ 510020 [B] - 4.00 L (1.06 Gal.). ▶ 510030 [C] - 5.00 L (1.32 Gal.). ▶ 510050 [D] - 6.00 L (1.59 Gal.). ▶ 510060 [F] - 8.00 L (2.12 Gal.). ▶ 510070 [G] - 10.00 L (2.65 Gal.). ▶ 510080 [K] - 15.10 L (4.00 Gal.). ▶ 510090 [H] - 22.70 L (6.00 Gal.).
	STEEL SQUARE RESERVOIR 3MM THICK ▶ 500110 [V] - 11.34 L (3.00 Gal.). ▶ 500120 [L] - 15.12 L (4.00 Gal.). ▶ 500130 [W] - 18.90 L (5.00 Gal.). ▶ 500140 [X] - 23.60 L (6.24 Gal.). ▶ 500150 [Z] - 23.60 L (6.25 Gal. Flat Tank). ▶ 500160 [Y] - 26.50 L (7.00 Gal.). ▶ 500180 [E] - 30.20 L (8.00 Gal.). ▶ 500190 [A] - 37.80 L (10.00 Gal.).
	BREATHER DIP STICK COMBINATION 3" LONG ▶ 520030 - 3/4" NPT. ▶ 520050 - 1/2" NPT. ▶ 520060 - 3/8" NPT, 3" Metal Stick. ▶ 520070 - 3/8" NPT, 4" Plastic Stick.
	RESERVOIR LEVEL GAUGE WITH THERMOMETER ▶ 520080 - 5" X 5" WITH 3/8" BOLTS MOUNTING HOLES 4" APART C. * For reservoir up to 1/2" thick.
	CARTRIDGE VALVE 2 WAYS, 2 POSITIONS WITH MANUAL OVERRIDE ▶ 115200 - Cartridge Valve. ▶ 641010 - Coil 12v. ▶ 641020 - Coil 24v. ▶ 641030 - Coil 110v. ▶ 641040 - Coil 220v.

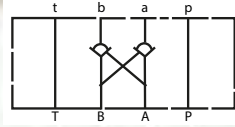
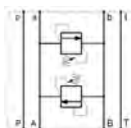
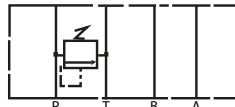
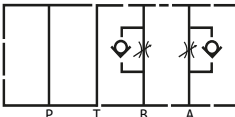
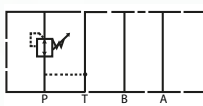
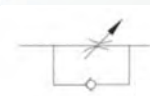
	POWER UNIT TOOLBOX ▶ 810200 - Aluminum Tool Box with Stainless Locking Handle and Gas Filled Cylinder for Lid. 36" W X 18.75" D X 16.35"H. ▶ 810300 - High Aluminum Tool Box with Stainless Locking Handle and Gas Filled Cylinder for Lid. 36" W X 18.75" D X 20.125"H. ▶ 810100 - Polymer Toolbox with Locking Hasp. 36" W X 18.75" D X 17.75" H.
	2 BUTTONS REMOTE CONTROL 16/3 (SINGLE ACTING) ▶ 630140 - Remote control with 2 buttons for single acting unit, magnetic back, plastic support and 20' of 16/3 cable with terminals. ▶ 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.
	2 BUTTONS REMOTE CONTROL 16/4 (DOUBLE ACTING) ▶ 630060 - Remote control with 2 buttons for double acting unit, magnetic back, plastic support and 20' of 16/4 cable with terminals. ▶ 610070 - 10' Extension for 2 Buttons Remote Control.
	4 BUTTONS REMOTE CONTROL 16/6 (OPTION 24 UNIT) ▶ 630170 - Remote Control with 4 Buttons and 20' of 16/6 Cable with Terminals.
	2 BUTTONS WIRELESS REMOTE CONTROL ▶ 630010 - 2 Buttons Wireless Remote Control, 20 AMPS for Over 50M, Adaptable to 12v & 24v.
	4 BUTTONS WIRELESS REMOTE CONTROL ▶ 630030 - 4 Buttons Wireless Remote Control, 20 AMPS for Over 50M, Adaptable to 12v & 24v.

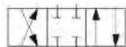
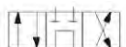
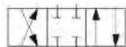
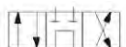
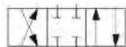
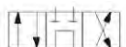
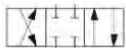
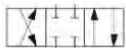
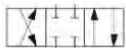


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	BATTERY TRAY ▶ 810800 - Battery Tray and Holder with Strap 7" x 10.5" for GR. 24. ▶ 810810 - Standard Battery Tray for GR. 27-31 (Good for NovaPeak).
	BATTERY CHARGER ▶ 640120 - Low AMP Battery Charger 115VAC to 12VDC at 1.5 AMP. ▶ 640135 - Battery Charger 115VAC to 13.8VDC at 5 AMP.
	BATTERY CABLE #4 WITH 5/16" LUGS ▶ 610260 - BLACK, 24" Long. ▶ 610270 - RED, 24" Long. ▶ 630320 - BLACK, Y Splice Wireless Quick Connector, 13" Long. ▶ 610240 - RED, 18" Long.
	HYDRAULIC HOSE 3/8", 1 WIRE, ▶ 320011 - 17" Long. ▶ 320030 - 24" Long. ▶ 320050 - 36" Long. ▶ 320060 - 48" Long. ▶ 320070 - 60" Long. * Hydraulic hose are highly customizable. We offer both female and male fittings in JIC, ORB and NPT.
	2" BREATHER WELDED 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.

 	MODULAR PILOTED CHECK VALVE ON “A” AND “B” ► 122520 for D03 Valve ► 123500 for D05 Valve <table><tr><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>3555 PSI</td><td>10.5 GPM</td></tr><tr><td>3555 PSI</td><td>21.0 GPM</td></tr></table>	Max. Pressure	Max. Flow	3555 PSI	10.5 GPM	3555 PSI	21.0 GPM										
Max. Pressure	Max. Flow																
3555 PSI	10.5 GPM																
3555 PSI	21.0 GPM																
 	MODULAR CROSS-OVER RELIEF VALVE “A” AND “B”, PRESET 96 BAR ► 122530 for D03 Valve  <table><tr><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>Adjust. 200 - 3555 PSI</td><td>10.5 GPM</td></tr></table>	Max. Pressure	Max. Flow	Adjust. 200 - 3555 PSI	10.5 GPM												
Max. Pressure	Max. Flow																
Adjust. 200 - 3555 PSI	10.5 GPM																
 	MODULAR RELIEF VALVE FROM “P” TO “T” ► 122540 for D03 Valve <table><tr><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>Adjust. 200 - 3555 PSI</td><td>10.5 GPM</td></tr></table>	Max. Pressure	Max. Flow	Adjust. 200 - 3555 PSI	10.5 GPM												
Max. Pressure	Max. Flow																
Adjust. 200 - 3555 PSI	10.5 GPM																
 	INDEPENDENT ADJUST. MODULAR FLOW “A” AND “B” UNIDIRECTIONAL ► 122550 for D03 Valve ► 123520 for D05 Valve <table><tr><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>3555 PSI</td><td>10.5 GPM</td></tr><tr><td>3555 PSI</td><td>21.0 GPM</td></tr></table>	Max. Pressure	Max. Flow	3555 PSI	10.5 GPM	3555 PSI	21.0 GPM										
Max. Pressure	Max. Flow																
3555 PSI	10.5 GPM																
3555 PSI	21.0 GPM																
 	PRESSURE REDUCING VALVE FROM “P” TO “T” ► 122560 for D03 Valve * Adjustable from 2275 to 500 PSI. <table><tr><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>3555 PSI</td><td>10.5 GPM</td></tr></table>	Max. Pressure	Max. Flow	3555 PSI	10.5 GPM												
Max. Pressure	Max. Flow																
3555 PSI	10.5 GPM																
 	DIRECTIONAL FLOW CONTROL VALVE <table><tr><td></td><td>Port</td><td>Max. Pressure</td><td>Max. Flow</td></tr><tr><td>► 100010</td><td>SAE06 9/16-18</td><td>5000 PSI</td><td>8.0 GPM</td></tr><tr><td>► 100020</td><td>SAE08 3/4-16</td><td>5000 PSI</td><td>10.5 GPM</td></tr><tr><td>► 100030</td><td>SAE10 7/8-14</td><td>5000 PSI</td><td>16.5 GPM</td></tr></table>		Port	Max. Pressure	Max. Flow	► 100010	SAE06 9/16-18	5000 PSI	8.0 GPM	► 100020	SAE08 3/4-16	5000 PSI	10.5 GPM	► 100030	SAE10 7/8-14	5000 PSI	16.5 GPM
	Port	Max. Pressure	Max. Flow														
► 100010	SAE06 9/16-18	5000 PSI	8.0 GPM														
► 100020	SAE08 3/4-16	5000 PSI	10.5 GPM														
► 100030	SAE10 7/8-14	5000 PSI	16.5 GPM														

	DIRECTIONAL VALVE WITH SUBPLATE MOUNT D02 <table><thead><tr><th></th><th></th><th>Max. Pressure</th><th>Max. Flow</th></tr></thead><tbody><tr><td>Closed Center ▶ 121100 - 12v ▶ 121110 - 110v</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr><tr><td>Tandem Center ▶ 121120 - 12v ▶ 121125 - 24v ▶ 121130 - 110v</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr><tr><td>A & B > T ▶ 121140 - 12v ▶ 121150 - 110v</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr></tbody></table>			Max. Pressure	Max. Flow	Closed Center ▶ 121100 - 12v ▶ 121110 - 110v		4500 PSI	5.2 GPM	Tandem Center ▶ 121120 - 12v ▶ 121125 - 24v ▶ 121130 - 110v		4500 PSI	5.2 GPM	A & B > T ▶ 121140 - 12v ▶ 121150 - 110v		4500 PSI	5.2 GPM
		Max. Pressure	Max. Flow														
Closed Center ▶ 121100 - 12v ▶ 121110 - 110v		4500 PSI	5.2 GPM														
Tandem Center ▶ 121120 - 12v ▶ 121125 - 24v ▶ 121130 - 110v		4500 PSI	5.2 GPM														
A & B > T ▶ 121140 - 12v ▶ 121150 - 110v		4500 PSI	5.2 GPM														
	DIRECTIONAL VALVE WITH SUBPLATE MOUNT D03 <i>* Come Standard with 304 Stainless Steel Push Pin Manual Override.</i> <table><thead><tr><th></th><th></th><th>Max. Pressure</th><th>Max. Flow</th></tr></thead><tbody><tr><td>Closed Center ▶ 122191 - 12v ▶ 122200 - 24v ▶ 122210 - 110v ▶ 122220 - 220v</td><td></td><td>4500 PSI</td><td>18.5 GPM</td></tr><tr><td>Tandem Center ▶ 122240 - 12v ▶ 122250 - 24v ▶ 122260 - 110v ▶ 122270 - 220v</td><td></td><td>4500 PSI</td><td>13.2 GPM</td></tr><tr><td>A & B > T ▶ 122280 - 12v ▶ 122290 - 24v ▶ 122300 - 110v ▶ 122310 - 220v</td><td></td><td>4500 PSI</td><td>18.5 GPM</td></tr></tbody></table>			Max. Pressure	Max. Flow	Closed Center ▶ 122191 - 12v ▶ 122200 - 24v ▶ 122210 - 110v ▶ 122220 - 220v		4500 PSI	18.5 GPM	Tandem Center ▶ 122240 - 12v ▶ 122250 - 24v ▶ 122260 - 110v ▶ 122270 - 220v		4500 PSI	13.2 GPM	A & B > T ▶ 122280 - 12v ▶ 122290 - 24v ▶ 122300 - 110v ▶ 122310 - 220v		4500 PSI	18.5 GPM
		Max. Pressure	Max. Flow														
Closed Center ▶ 122191 - 12v ▶ 122200 - 24v ▶ 122210 - 110v ▶ 122220 - 220v		4500 PSI	18.5 GPM														
Tandem Center ▶ 122240 - 12v ▶ 122250 - 24v ▶ 122260 - 110v ▶ 122270 - 220v		4500 PSI	13.2 GPM														
A & B > T ▶ 122280 - 12v ▶ 122290 - 24v ▶ 122300 - 110v ▶ 122310 - 220v		4500 PSI	18.5 GPM														
	DIRECTIONAL VALVE WITH SUBPLATE MOUNT D05 <table><thead><tr><th></th><th></th><th>Max. Pressure</th><th>Max. Flow</th></tr></thead><tbody><tr><td>Closed Center ▶ 123100 - 12v ▶ 123110 - 24v ▶ 123120 - 110v</td><td></td><td>4500 PSI</td><td>31.0 GPM</td></tr><tr><td>Tandem Center ▶ 123130 - 12v ▶ 123140 - 24v ▶ 123150 - 110v</td><td></td><td>4500 PSI</td><td>21.0 GPM</td></tr><tr><td>A & B > T ▶ 123160 - 12v</td><td></td><td>4500 PSI</td><td>31.0 GPM</td></tr></tbody></table>			Max. Pressure	Max. Flow	Closed Center ▶ 123100 - 12v ▶ 123110 - 24v ▶ 123120 - 110v		4500 PSI	31.0 GPM	Tandem Center ▶ 123130 - 12v ▶ 123140 - 24v ▶ 123150 - 110v		4500 PSI	21.0 GPM	A & B > T ▶ 123160 - 12v		4500 PSI	31.0 GPM
		Max. Pressure	Max. Flow														
Closed Center ▶ 123100 - 12v ▶ 123110 - 24v ▶ 123120 - 110v		4500 PSI	31.0 GPM														
Tandem Center ▶ 123130 - 12v ▶ 123140 - 24v ▶ 123150 - 110v		4500 PSI	21.0 GPM														
A & B > T ▶ 123160 - 12v		4500 PSI	31.0 GPM														

	DIN CONNECTORS ▶ 618200 - DIN Connector 12/24v with LED Light. ▶ 618210 - DIN Connector 115/230v with LED Light.																
	MANUAL DIRECTIONAL VALVE D02 <table><thead><tr><th></th><th></th><th>Max. Pressure</th><th>Max. Flow</th></tr></thead><tbody><tr><td>▶ 122035 - Closed Center</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr><tr><td>▶ 122030 - Tandem Center</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr><tr><td>▶ 122040 - A & B > T</td><td></td><td>4500 PSI</td><td>5.2 GPM</td></tr></tbody></table>			Max. Pressure	Max. Flow	▶ 122035 - Closed Center		4500 PSI	5.2 GPM	▶ 122030 - Tandem Center		4500 PSI	5.2 GPM	▶ 122040 - A & B > T		4500 PSI	5.2 GPM
		Max. Pressure	Max. Flow														
▶ 122035 - Closed Center		4500 PSI	5.2 GPM														
▶ 122030 - Tandem Center		4500 PSI	5.2 GPM														
▶ 122040 - A & B > T		4500 PSI	5.2 GPM														
	MANUAL DIRECTIONAL VALVE D03 <table><thead><tr><th></th><th></th><th>Max. Pressure</th><th>Max. Flow</th></tr></thead><tbody><tr><td>▶ 122015 - Closed Center</td><td></td><td>4500 PSI</td><td>15.8 GPM</td></tr><tr><td>▶ 122000 - Tandem Center</td><td></td><td>4500 PSI</td><td>15.8 GPM</td></tr><tr><td>▶ 122020 - A & B > T</td><td></td><td>4500 PSI</td><td>15.8 GPM</td></tr></tbody></table>			Max. Pressure	Max. Flow	▶ 122015 - Closed Center		4500 PSI	15.8 GPM	▶ 122000 - Tandem Center		4500 PSI	15.8 GPM	▶ 122020 - A & B > T		4500 PSI	15.8 GPM
		Max. Pressure	Max. Flow														
▶ 122015 - Closed Center		4500 PSI	15.8 GPM														
▶ 122000 - Tandem Center		4500 PSI	15.8 GPM														
▶ 122020 - A & B > T		4500 PSI	15.8 GPM														
	ALUMINUM TOOLBOX TRAY ▶ 810400 - Aluminum Toolbox Tray - Left Side. ▶ 810500 - Aluminum Toolbox Tray - Right Side.																
	MASTER SWITCH ▶ 640010																
	AUTO-RESET FUSE ▶ 618110 - Automatic Reset Fuse, 12v & 30AMP																



MANIFOLDS

- ▶ 200025 - 1 x D02 (parallel).
- ▶ 200000 - 4 x D02 (parallel).
- ▶ 200020 - 1 x D03 (parallel).
- ▶ 200030 - 2 x D03 (parallel).
- ▶ 200040 - 3 x D03 (parallel).
- ▶ 200010 - 4 x D03 (parallel).
- ▶ 200019 - 1 x D05 (serie).
- ▶ 200110 - 2 x D05 (serie).
- ▶ 200111 - 2 x D05 with Relief (serie).
- ▶ 200112 - 2 x D05 AC High Flow with Relief (serie).
- ▶ 303100 - 5/16-18 x 1/2" Support Bracket Bolts (4 per Block).



RETURN FILTER HOUSING 3/4" NPT WITH 10 MICRON SPIN ON FILTER

- ▶ 150020 - Adaptor 3/4" NPT.
- ▶ 150021 - Spin On Filter.



PRESSURE GAUGE, GLYCERIN FILLED AND STAINLESS HOUSING 1/4" NPT

- ▶ 900100 - 0-3000 PSI.
- ▶ 900110 - 0-5000 PSI.

**Other models available upon request.*

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.
- ▶ 2 ranges of motors standard & long duty.
- ▶ 12, 24 volt DC.
- ▶ 115/230 volt AC - single phase.
- ▶ 230/460/575 volt AC - three phase.
- ▶ 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 3000PSI.



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.



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

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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 MARCHE 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 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 pressures.
- ▶ 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.

NON-TRANSFERABLE LIMITED WARRANTY



This document outlines the warranty associated with Eagle Hydraulic 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 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.



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

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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, the Date Code, 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 & Date Code
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



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: _____

DATE: _____

COMMENTS: _____

This area is for internal use only.



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FLUID POWER FORMULAS

PRESSURE

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

P = Pressure (PSI) F = Force (Lb.)
A = Area (sq. in.)

CYLINDER VOLUME

$$V = A \times S$$

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

CYLINDER PISTON AREA

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

A_p = Piston Area D_p = Piston Diameter

CYLINDER ROD AREA

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

A_r = Rod Area D_r = Rod Diameter

CYLINDER EFFECTIVE AREA

$$A_e = A_p - A_r$$

A_e = Effective Area A_p = Piston Area
A_r = Rod Area

CYLINDER PISTON SPEED

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

V = Piston Speed (min.) Q = Flow (GPM)
A = Cylinder Area (sq. in.)

CYLINDER FLOW @ X SPEED

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

Q = Flow (GPM) V = Rod Speed (In./Min.)
A = Cylinder Area (sq. in.)

HYDRAULIC HORSEPOWER

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

HP = Hydraulic HP Q = Flow (GPM)
P = Pressure (PSI)

MOTOR HP REQUIRED TO DRIVE A PUMP

$$(GPM \times PSI) / (1714 \times \text{Eff})$$

Efficiency is in most cases not higher than 85%
1714 x 0.85 = 1457

HYDRAULIC MOTOR HORSEPOWER

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

HP = Hydraulic Motor Horsepower
S = Speed (RPM) T = Torque (Lb/in.)

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

HYDRAULIC MOTOR SPEED

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

RPM = (Motor Shaft Speed) Q = Flow (GPM)
Disp = Motor Disp (Cu / In / Rev)

HYDRAULIC MOTOR TORQUE

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

T = Motor Torque (Lb-in) p = Pressure (PSI)
Disp = Motor Disp (Cu / In / Rev)

TORQUE

$$T = F \times d$$

T = Torque (Lb-in) F = Force (Lb)
d = Distance (in.)





EAGLE IS NOT ONLY A HYDRAULIC CYLINDER MANUFACTURER

We can provide more than 500,000 unique hydraulic solutions.
Tell us about your needs!

OUR SOLUTIONS



STANDARD AND CUSTOM
HYDRAULIC CYLINDERS



STANDARD AND CUSTOM
TELESCOPIC CYLINDERS



SCISSOR HOISTS



NEW: NOVAPEAK



INTEGRATED TOOLBOX



AC & DC POWER UNITS



CAST IRON GEAR
PUMPS



HYDRAULIC MOTORS

And many other hydraulic components!

PROUD MEMBER OF



Get in touch with us!



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info@eagle-hydraulic.com
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A Canadian Owned & Operated Company 
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