



Wainbee Standard Hydraulic Power Units WSU Series



POWERED BY WAINBEE

ORDERING INFORMATION

Reservoir

Pump & Motor Assembly

Manifold

Coil Voltage

Directional Valve

Manapak

WSU 40 V S

075 A G29

H1

1

A

1

REPEAT VALVE AND MANAPAK SELECTION FOR EACH STATION OF THE MANIFOLD (SEPARATE STATIONS WITH A '/')

Code Tank Size (gal)*	Code Tank Style		
	V	J	L
5	●		
10	●		
20	●		
30	●	●	
40	●	●	
60		●	●
80		●	●
100		●	
120			●

* Other tank sizes available on request.

S - Steel reservoir

All standard reservoirs are made from steel. Other materials available on request. (Ex: stainless steel, plastic, aluminum)

Code Motor HP	Code Motor Type	Code Pump Syle	Gear Pumps		Piston Pumps		
			Code	Flow	Code	Flow	
010	1HP	A*	115/230V/1ph	G005	0.5 gpm	P092	9.2 gpm
015	1.5HP	B	230/460V/3ph	G010	1 gpm	P132	13.2 gpm
020	2HP	C	575V/3ph	G012	1.2 gpm	P214	21.4 gpm
030	3HP			G015	1.5 gpm	P280	28 gpm
050	5HP			G019	1.9 gpm	P356	35.6 gpm
075	7.5HP			G024	2.4 gpm		
100	10HP			G029	2.9 gpm		
150	15HP			G040	4.0 gpm		
200	20HP			G047	4.7 gpm		
250	25HP			G057	5.7 gpm		
300	30HP			G075	7.5 gpm		
400	40HP			G095	9.5 gpm		
500	50HP			G120	12 gpm		

RULE OF THUMB:
Horse power for driving a pump:
Each HP of drive produces
1GPM @ 1500 PSI

* Maximum single phase power is 2HP at 115V and 5HP at 230V.

Code	Manifold Description
A0	Pressure&Tank Couplings, No valve
B0	With Relief, Pressure&Tank Port, No valve
C0	With Relief, Unloading, P&T ports, No valve
D0	With Relief, Remote, P&T ports, No valve
E*	D03 pattern with relief
F*	D05 pattern with relief
G*	D08 pattern with relief
H*	D03 pattern with integrated relief and return filter
J*	D05 pattern with integrated relief and return filter
K*	D03 pattern with integrated relief, return filter and unloading

* Add the number of stations for the manifold. Maximum numbers of station as standard is 4. Example: H2 = D03 pattern with relief, 2 stations.

Code	Manapak Description	Pattern	Nominal Flow	Maximum Flow
0	None			
1	Flow control, dual A&B, D03			
2	Flow control, dual A&B, D05			
3	Flow control, dual A&B, D08			
4	Pilot operated check valve, Dual A&B, D03			
5	Pilot operated check valve, Dual A&B, D05			
6	Pilot operated check valve, Dual A&B, D08			
7	Pressure reducing relieving, P port reduced, D03			
8	Pressure reducing relieving, P port reduced, D05			
9	Pressure reducing relieving, P port reduced, D08			
T5	Transition Plate D05/D03			
T8	Transition Plate D08/D05			
C3	Cover Plate D03	D03	7 gpm	12 gpm
C5	Cover Plate D05	D05	12 gpm	20 gpm
C8	Cover Plate D08	D08	40 gpm	60 gpm

Note: More than one selection per station can be made.

V-Vertical Style

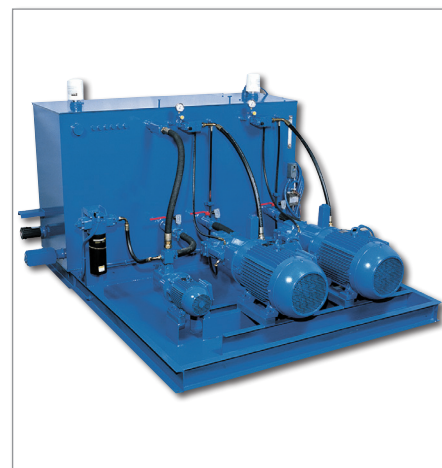


Pictures are for reference only.

JIC - Horizontal Style



L Style



Code / Voltage	Description
0	None
1	120 VAC
2	24 VDC
3	Other (Specify)

Code / Valve Style	Spool Type	Symbol	Valve Description
0	None		
A	D03 style	020B	Single solenoid, 2 positions, spring offset. P to A and B to T in offset position
B	D05 style	20B	
C	D08 style	001B	
D	D03 style	001C	Double solenoid, 3 positions, closed center
E	D05 style	1C	
F	D08 style	001C	
G	D03 style	002C	Double solenoid, 3 positions, open center
H	D05 style	2C	
J	D08 style	002C	
K	D03 style	004C	Double solenoid, 3 positions, float center
L	D05 style	4C	
M	D08 style	004C	
N	D03 style	008C	Double solenoid, 3 positions, tandem center
P	D05 style	8C	
Q	D08 style	008C	

Filtration

Temperature Control

Accessories

AC

MORE THAN ONE SELECTION CAN BE MADE

Code	Description
0	None
Pressure filter	
A	5µm, 7000PSI, High Pressure
Return filter	
B	10µm, 150PSI, Tank Top
C	10µm, 800PSI, Medium Pressure
D	10µm, 150PSI, Spin-On

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MORE THAN ONE SELECTION CAN BE MADE

Code	Description
0	None
1*	Motor Rear Mount Cooler Frame 56 to 256 TC
2	Air Cooler 20GPM/6HP heat rejection - 460/575V
3	Air Cooler 30GPM/12HP heat rejection - 460/575V
4	Water Cooler 2:1 oil/water ratio 15HP at 15GPM/max. 25GPM
5	Immersion Heater 500W/120V
6	Immersion Heater 1500W/575V
7	Thermostatic Water Valve SAE-16/140°F
WV	Modulating Water Valve 20GPM/ 75°F-150°F
WS	Water Strainer 3/4NPT

* See table below for available motor frame sizes based on motor HP.

Motor HP	Motor Frame Size (1800 RPM)
1-2 HP	56C/143/145TC
3-5 HP	182/184TC
7.5-10 HP	213/215TC
15-20 HP	254/256TC
25-30 HP	284/286TC

WHY WAINBEE HYDRAULIC POWER UNITS ?

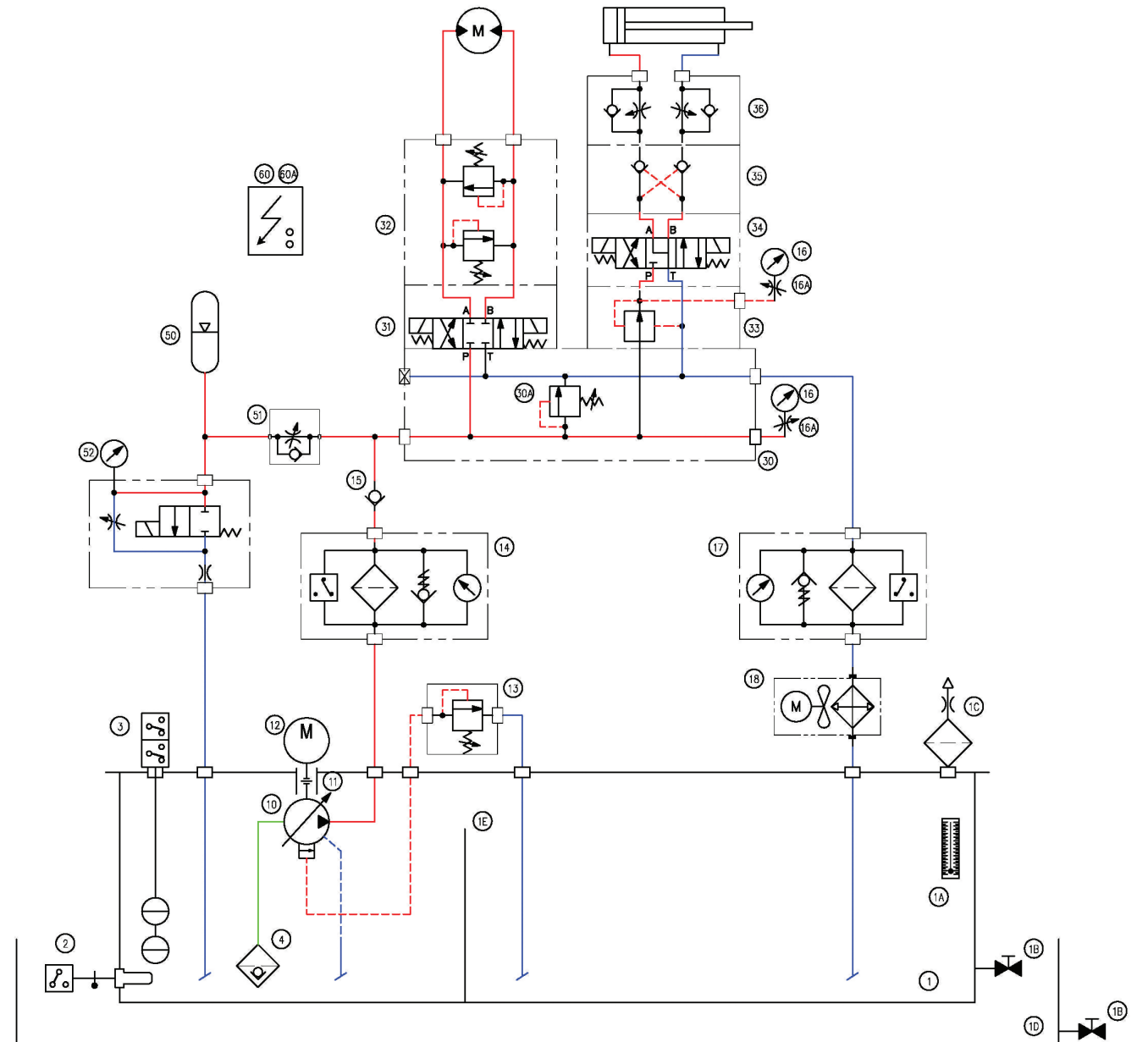
- ✓ Performance
- ✓ Reliability
- ✓ High Quality
- ✓ Smart Solutions
- ✓ Traceability
- ✓ Customization
- ✓ Integration

LDBVD1

MORE THAN ONE SELECTION CAN BE MADE

Code	Description
0	None
MV	Max. Volume Stop
LS	Single Level Switch
LD	Dual Level Switch
PD	Low and High Pressure Switch
PT	Pressure Transmitter
TS	High Temperature Switch
TD	Dual Temperature Switch
TT	Temperature Transmitter
IF	Electrical Filter Clogging Indicator
AC	Accumulator
RC	Remote Pressure Control
BP	Pressurized Breather
PF	Phosphate Ester Fluid
SV	Suction Vacuum Switch
SP	Suction Pressure Transmitter
ST	Suction Strainer
BV	Suction Ball Valve
TR	Triceptor
D1	Drip Pan 10%
D2	Drip Pan 110%
OD	Overhead Design (JIC res. only)
EP	Electrohydraulic Press. Control
EF	Electrohydraulic Flow Control
ED	Electrohydraulic Flow/Press. Control
CO	Cross Over Relief (for motor prot.)
CB	Counterbalance Valve
MS	Manual Motor Starter
LF	Low Temperature Fluid
FI	Fluid Included
MH	Motor Heater
CM	Custom Manifold
GY	Glyptal Coating (inside reservoir)
3D	3D Drawing Supplied
XX	Other (Specify)

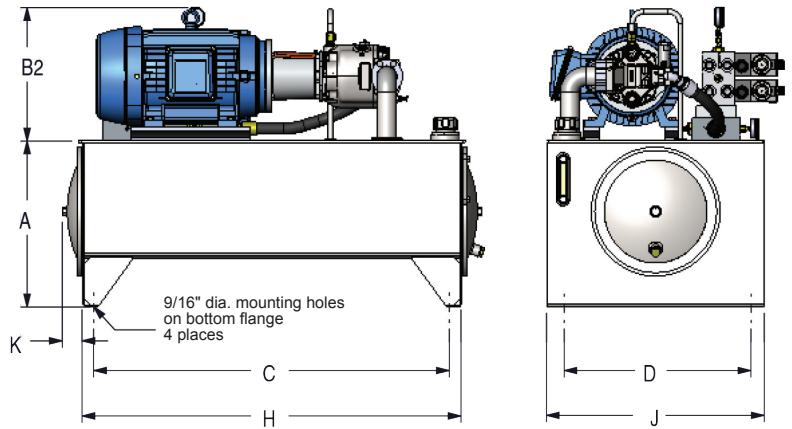
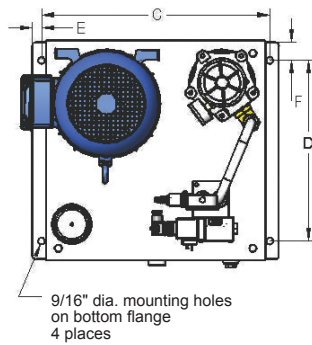
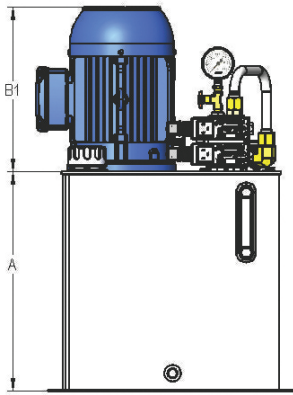
TYPICAL SYSTEM SCHEMATIC



SYSTEM COMPONENTS

ITEM	DESCRIPTION
1	Reservoir
1A	Level Indicator
1B	Ball Valve (drain)
1C	Filler Breather
1D	Drip Pan (10% or 110%) (optional)
1E	Baffle (optional)
2	Temperature Switch
3	Dual Level Switch
4	Suction Strainer
10	Pump
11	Pump Motor Adaptor & Coupling
12	Electric Motor
13	Remote Relief Valve
14	Pressure Filter
15	Check Valve

16	Pressure Gauge
16A	Gauge Isolation Valve
17	Return Filter & Electrical Clogging Indicator
18	Cooler
30	Block Manifold
30A	Relief Valve
31	Directional Valve (Closed Center)
32	Dual Cross Over Relief Valve
33	Pressure Reducing Valve
34	Directional Valve (AB -> T)
35	Pilot Operated Check Valve
36	Dual Flow Control Valve
50	Accumulator
51	Flow Control
52	Accumulator Dump Valve
60 / 60A	Starter Panel / Junction Box (optional)



VERTICAL STYLE - HYDRAULIC POWER UNIT DIMENSIONS

Capacity Gallons	Dimensions - mm (inch)				
	A	C	D	E	F
5	254 (10)	342.9 (13.5)	254 (10)	12.7 (0.5)	31.7 (1.25)
10	387.4 (15.25)	444.5 (17.5)	355.6 (14.0)	19.1 (0.75)	31.7 (1.25)
20	457.2 (18)	482.6 (19)	381 (15)	19.1 (0.75)	38.1 (1.5)
30	660.4 (26)	482.6 (19)	381 (15)	19.1 (0.75)	38.1 (1.5)
40	863.6 (34)	482.6 (19)	381 (15)	19.1 (0.75)	38.1 (1.5)

JIC STYLE - HYDRAULIC POWER UNIT DIMENSIONS

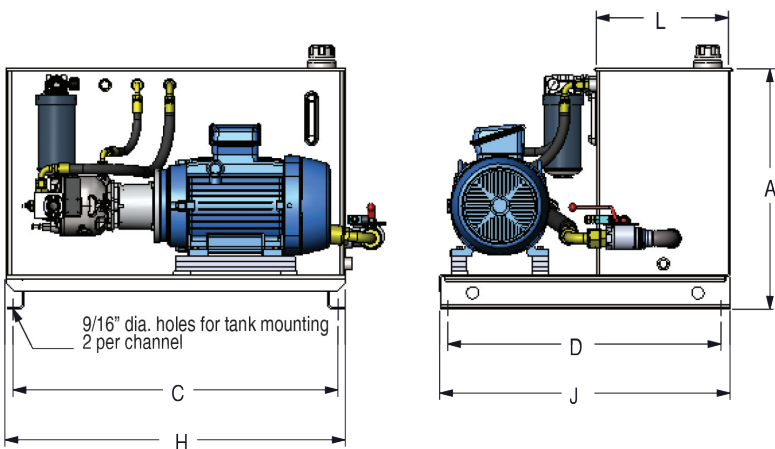
Capacity Gallons	Dimensions - mm (inch)					
	A	C	D	H	J	K
30	492.2 (19.38)	819.1 (32.25)	571.5 (22.5)	914.4 (36)	609.6 (24)	47.7 (1.88)
40	527.1 (21)	819.1 (32.25)	571.5 (22.5)	914.4 (36)	609.6 (24)	47.7 (1.88)
60	525.5 (20.69)	1123.9 (44.25)	647.7 (25.5)	1219.2 (48)	685.8 (27)	60.4 (2.38)
80	546.1 (21.5)	1428.7 (56.25)	647.7 (25.5)	1524 (60)	685.8 (27)	60.4 (2.38)
100	596.9 (23.5)	1428.7 (56.25)	647.7 (25.5)	1524 (60)	685.8 (27)	60.4 (2.38)

MOTOR DIMENSIONS

Dimensions* - mm (inch)	Motor Frame Sizes							
	143/145TC	182/184TC	213/215TC	254/256TC	284/286TC	324/326TC	364/365TC	404/405TC
B1* maximum	336.5 (13.25)	388.3 (15.29)	467.3 (18.4)	590.5 (23.25)	655.8 (25.82)	699.7 (27.55)	763.7 (30.07)	823.9 (32.44)
B2** maximum	230.8 (9.09)	281.9 (11.1)	318 (12.52)	373.6 (14.71)	426.7 (16.80)	483.8 (19.05)	534.9 (21.06)	583.1 (22.96)

* B1 dimension includes also the thickness for the motor adaptor flange and the top cover.

** B2 dimension includes also the thickness for the motor dampening bars.



L STYLE - HYDRAULIC POWER UNIT DIMENSIONS

Capacity Gallons	Dimensions - mm (inch)					
	A	C	D	H	J	L
45	750.8 (29.56)	1022.3 (40.25)	812.8 (32)	1066.8 (42)	914.4 (36)	317.5 (12.5)
60	750.8 (29.56)	1022.3 (40.25)	812.8 (32)	1066.8 (42)	914.4 (36)	419.1 (16.5)
80	776.2 (30.56)	1174.7 (46.25)	965.2 (38)	1219.2 (48)	1066.8 (42)	469.9 (18.5)
120	870 (32.56)	1276.3 (50.25)	1168.4 (46)	1320.8 (52)	1270 (50)	571.5 (22.5)



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