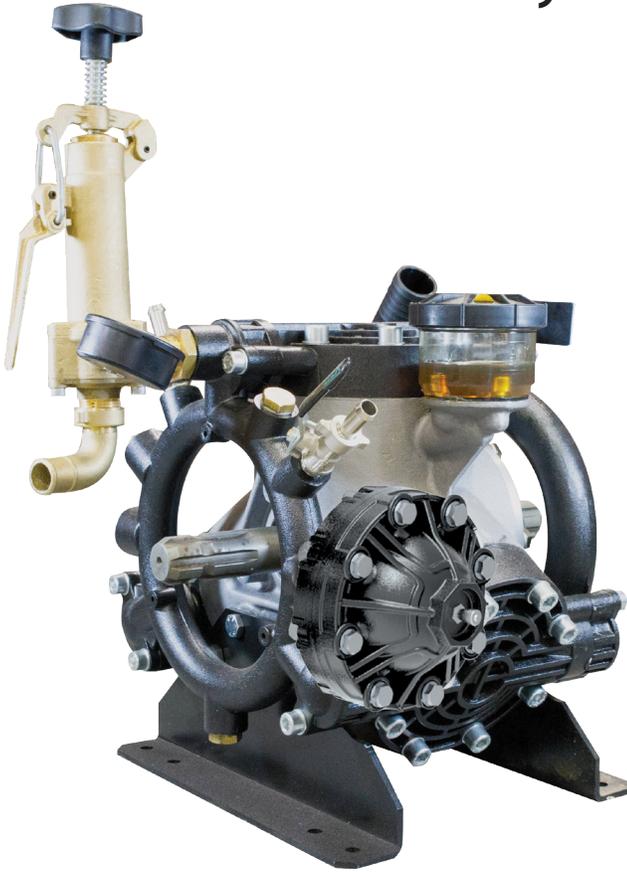


3-Cylinder, High-Pressure Diaphragm Pumps with 4900.09 - VRG 160 Regulator



OMEGA 140 3-cylinder, high pressure, high volume diaphragm pumps are constructed of anodized aluminum, brass and stainless steel and have anodized aluminum, brass and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

OMEGA 140 pumps are excellent choices for various horticultural and agricultural spraying applications.

Pumps are available with a 1-3/8" Male PTO thru-shaft.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
OMEGA 140 TS2C	39.0	140	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	100 LBS

Specifications	OMEGA 140	Description	Part #
Inlet Port	1-1/2" Hose Barb	Diaphragm Kit (GREENTECH)	8700.06
Outlet Ports	(2) 3/4" Hose Barb	Diaphragm Bolt / Washer Kit	6062.60
Bypass	1" Hose Barb	Valve Kit	6062.D9
Piston Diameter	75mm	Complete Repair Kit	8700.06CK
Crankshaft Stroke/Code	19.0mm / U		
Dimensions	17.5"L x 14.9"W x 16.0"H		

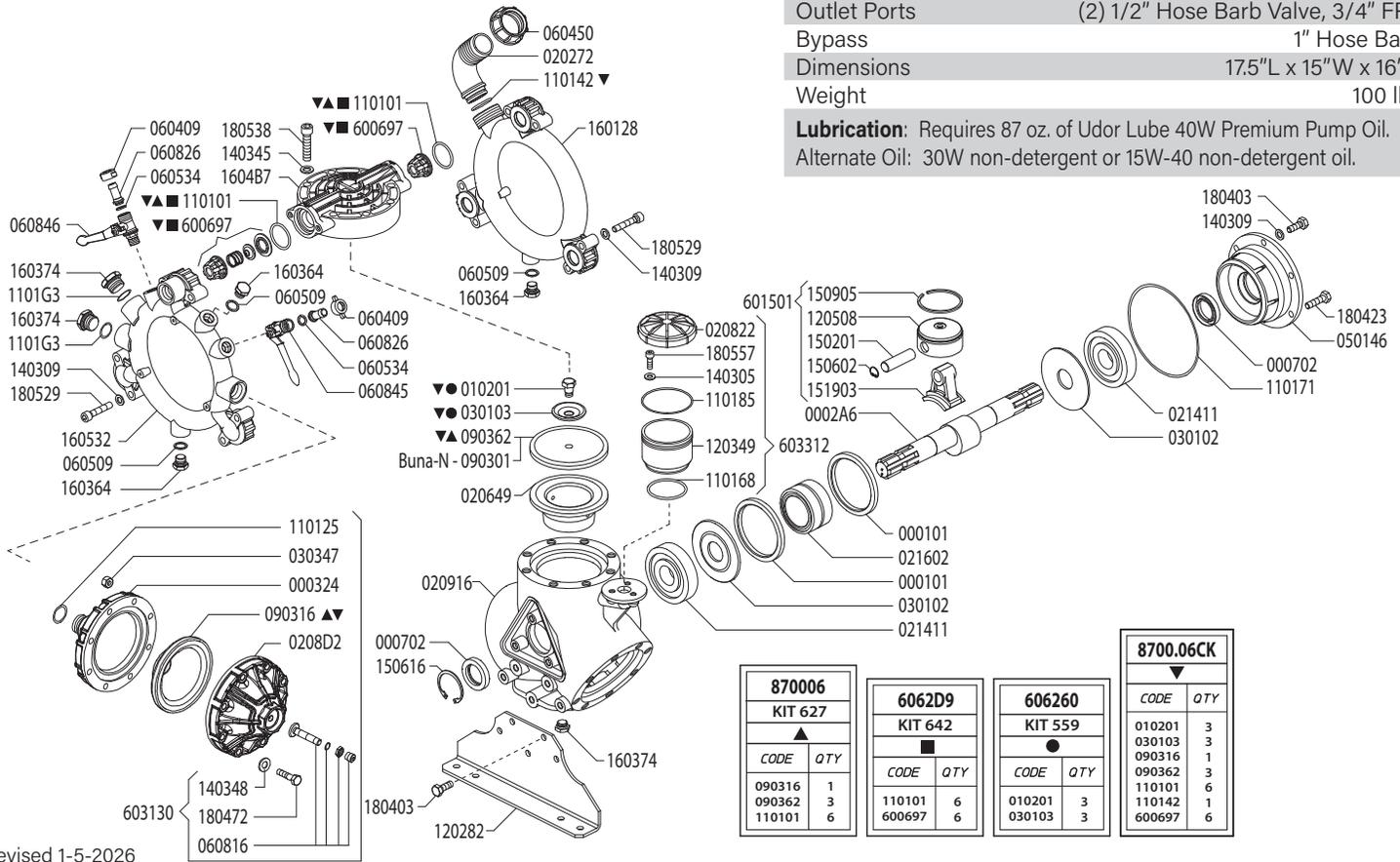
Lubrication: Requires 87 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



OMEGA 140 TS2C

Maximum Flow	39.0 GPM / 148 lpm
Maximum Pressure	725 PSI / 50 bar
Maximum RPM	550 RPM
Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" FPT
Bypass	1" Hose Barb
Dimensions	17.5"L x 15"W x 16"H
Weight	100 lbs

Lubrication: Requires 87 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



Revised 1-5-2026

Part #	Description	Qty
0001.01	RETAINER RING	2
0002.A6	SHAFT "ZETA 350/OMEGA" TS 2C	1
0003.24	PRESSURE ACCUMULATOR BASE	1
0007.02	SEAL	2
0102.01	DIAPHRAGM BOLT ●▼	3
0202.72	HOSE BARB D40	1
0206.49	PISTON SLEEVE	3
0208.22	OIL RESERVOIR COVER "BETA"	1
0208.D2	ACCUMULATOR COVER "BETA"	1
0209.16	PUMP BODY	1
0214.11	BALL BEARING	2
0216.02	NEEDLE BEARING	1
0301.02	SPACER	2
0301.03	DIAPHRAGM WASHER ●	3
0303.47	HEX NUT M8X8	8
0501.46	BEARING FLANGE	1
0604.09	BRASS NUT G1/2	2
0604.50	BARB NUT	1
0605.09	ALUMINUM GASKET	2
0605.34	GASKET	2
0608.16	AIR VALVE ASSEMBLY	1
0608.26	1/2" BARB	2
0608.45	BALL VALVE RIGHT	1
0608.46	BALL VALVE LEFT	1
0903.01	PISTON DIAPHRAGM 130MM BUNA-N	3
0903.16	ACCUMULATOR DIAPHRAGM ▲▼	1
0903.62	PISTON DIAPHRAGM 130MM GREENTECH ▲▼	3
1101.01	O-RING - VALVE ■▲▼	6
1101.25	O-RING - ACCUMULATOR	1
1101.42	O-RING - INLET HOSE BARB▼	1
1101.68	O-RING - OIL RESERVOIR	1
1101.71	O-RING - BEARING FLANGE	1
1101.85	O-RING - OIL RESERVOIR	1
1101.G3	O-RING - PLUG	2
1202.82	MOUNTING RAIL	2
1203.49	OIL RESERVOIR "BETA"	1

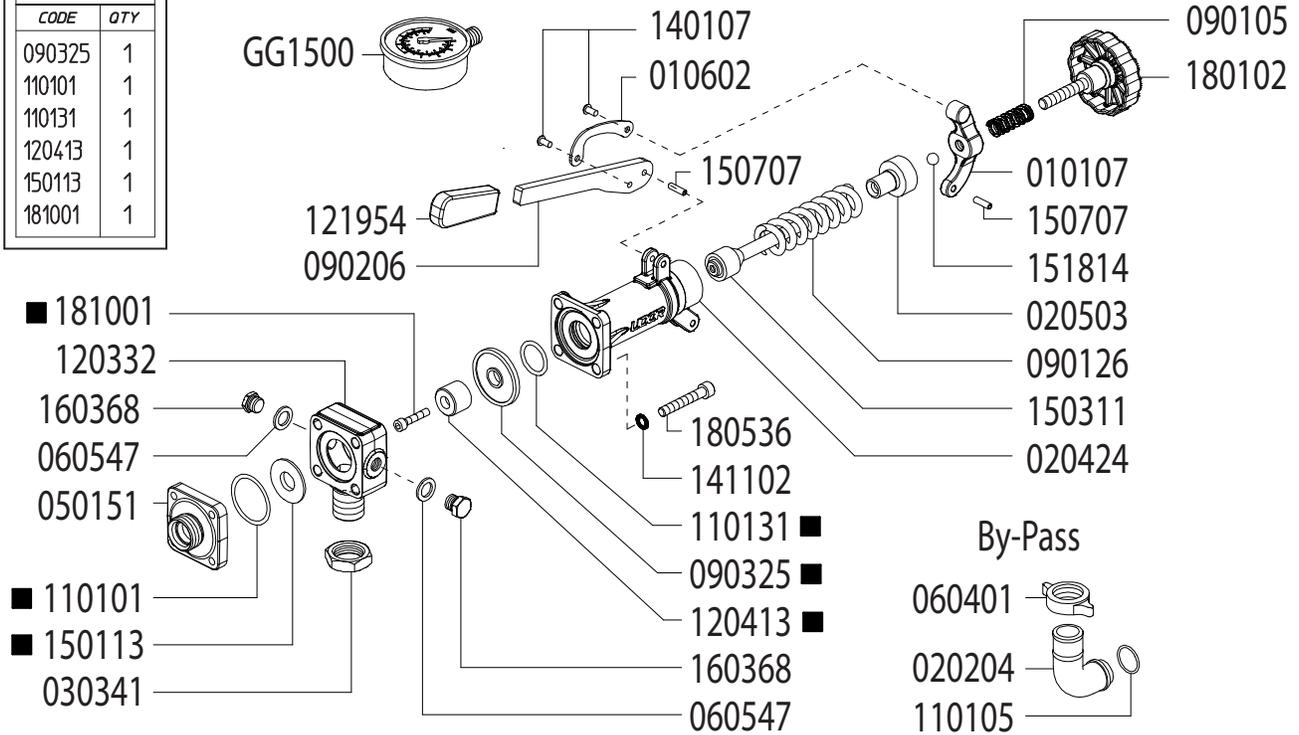
Part #	Description	Qty
1205.08	ALUMINIUM PISTON D75 "BETA/OMEGA/ZETA"	3
1403.05	WASHER D8.4	3
1403.09	WASHER	16
1403.45	WASHER	24
1403.48	WASHER D8.4	8
1502.01	PIN D18X64	3
1506.02	SNAP RING D18	6
1506.16	SNAP RING D55	1
1509.05	PISTON RING D75	3
1519.03	CONNECTING ROD	3
1601.28	SUCTION MANIFOLD	1
1603.64	PLUG G3/8	3
1603.74	PLUG G3/4	3
1604.B7	PUMP HEAD	3
1605.32	DISCHARGE MANIFOLD	1
1804.03	HEX BOLT	8
1804.23	HEX BOLT	2
1804.72	HEX SCREW M8X50	8
1805.29	ALLEN BOLT M10X55	2
1805.38	ALLEN BOLT	24
1805.57	ALLEN BOLT M8X22	3
6006.97	IN/OUT VALVE W/O O-RING ■▼	6
6015.01	PISTON ROD ASSEMBLY	3
6031.30	PRESSURE ACCUMULATOR ASSEMBLY	1
6033.12	OIL RESERVOIR ASSEMBLY	1
6015.01	PISTON/ROD ASSEMBLY	3
6031.30	ACCUMULATOR ASSEMBLY	1
6033.02	OIL RESERVOIR ASSEMBLY	1
6062.60	DIAPHRAGM BOLT/WASHER KIT (KIT 559)	1
6062.D9	IN/OUT VALVE KIT (KIT 642)	1
8700.06	DIAPHRAGM KIT - GREENTECH (KIT 627)	1
8700.06CK	COMPLETE REPAIR KIT	1

● Parts in 6062.60 (Kit 559)
 ■ Parts in 6062.D9 (Kit 642)
 ▲ Parts in 8700.06 (Kit 627)
 ▼ Parts in 8700.06CK (Complete Repair Kit)

Adjustable Pressure Regulator

Maximum Flow	47.3 GPM / 179.2 lpm
Maximum Pressure	1470 PSI / 10 bar
Inlet Port	3/4" Male BSP
Outlet Ports	-
Bypass - Hose Barb	1" HB

606254	
KIT 553	
CODE	QTY
090325	1
110101	1
110131	1
120413	1
150113	1
181001	1



Revised 10-9-2025

Part #	Description	Qty
0101.07	LEVER GUIDE	1
0106.02	PRESSURE BAIL	1
0202.04	1" BRASS ELBOW HOSE BARB	1
0204.24	VALVE BODY	1
0205.03	VALVE CYLINDER	1
0303.41	NUT	1
0501.50	FLANGE	1
0604.01	BARB NUT	1
0605.47	GASKET D8	1
0901.05	SPRING	1
0901.26	SPRING	1
0902.06	HANDLE	1
0903.25	DIAPHRAGM	1
1101.01	O-RING - BYPASS FLANGE	1
1101.05	O-RING - BYPASS HOSE BARB	1
1101.31	O-RING - VALVE BODY	1
1203.32	INLET ELBOW - 3/4" MALE BSP	1

Part #	Description	Qty
1204.13	POPPET	1
1219.54	HANDLE COVER - RUBBER	1
1401.07	RIVET	2
1411.02	WASHER	4
1501.13	SEAT	1
1503.11	REGULATOR STEM	1
1507.07	PIN	2
1518.14	BALL	1
1603.68	PLUG - 1/4" BRASS	1
1801.02	ADJUSTMENT KNOB	1
1805.36	BOLT	4
1810.01	BOLT - STAINLESS STEEL	1
GG1500	HIGH PRESSURE GAUGE (OPTIONAL)	1
6062.54	REPAIR KIT (KIT 553)	

■ Parts Included in Repair Kit #6062.54 (KIT 553)

OPERATING INSTRUCTIONS

1. Before operating or re-operating pump, lift R.V. Handle (0902.05) so pump will start at zero pressure.
FAILURE TO DO SO WILL VOID PUMP WARRANTY.
2. Turn Pressure Adjustment Knob (1801.02) counter-clockwise to relieve spring tension. (Step 2 is only necessary on initial start-up and is not necessary for daily operation.)
3. Start unit and let run until air is evacuated from system, when only liquid is expelled from the bypass line.
4. Return R.V. Handle (0902.05) to down position. Open spray gun or spray boom and turn adjustment knob (1801.02) clockwise until desired operating pressure is achieved.

All Dimensions are WITHOUT Control Unit or Regulator

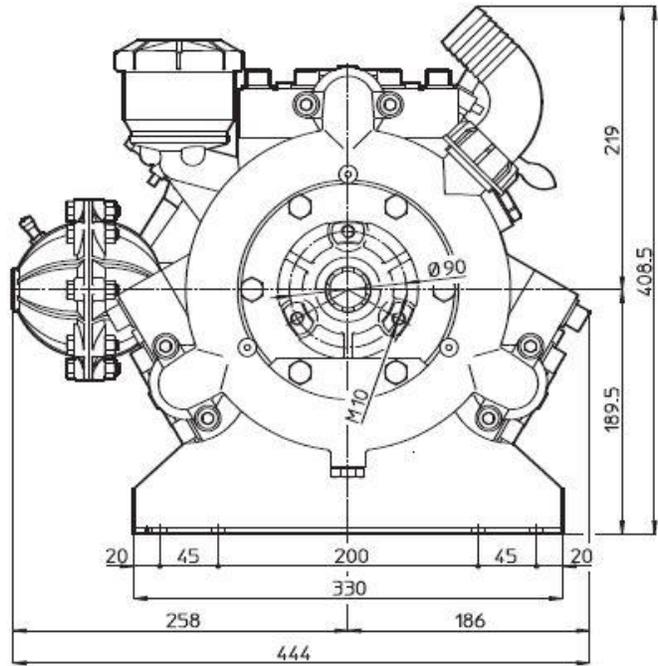
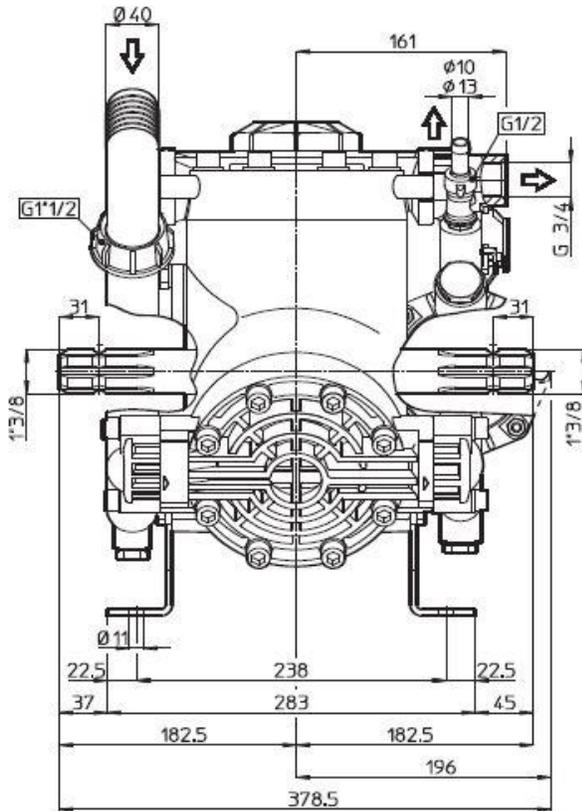
Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937

Specifications

OMEGA 140

Inlet Port - Hose Barb	1-1/2" HB
Outlet Ports - Hose Barb	(2) 3/4" FPT
Bypass - Hose Barb	1" HB
Dimensions	17.5"L x 15"W x 16"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 87 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



TORQUE SPECS

Ref.	Description	Ft./lb.	Nm
1	Diaphragm Bolts (Use Loctite 243)	22	30
2	Head Bolts	37	50
3	Pulsation Dampener Bolts	20	28
4	Bearing Flange Bolts	25	34
5	Oil Cup Bolts	7	10
6	Manifold Bolts - Aluminum/Brass	22	30

