

3-Cylinder, High-Pressure Diaphragm Pumps



OMEGA 139 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 139 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 139 TS2C	39.0	140	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	62 LBS

Specifications	OMEGA 139	Description	Part #
Inlet Port	1-1/2" Hose Barb	Diaphragm Kit (GREENTECH)	6062.H2
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" FPT	Diaphragm Bolt & Washer Kit	6062.16
Bypass	1" Hose Barb	Valve Kit	6062.D9
Piston Diameter	75mm	Complete Repair Kit	8700.30CK
Crankshaft Stroke/Code	19.0mm / U		
Dimensions	17.4"L x 15.5"W x 17.2"H		

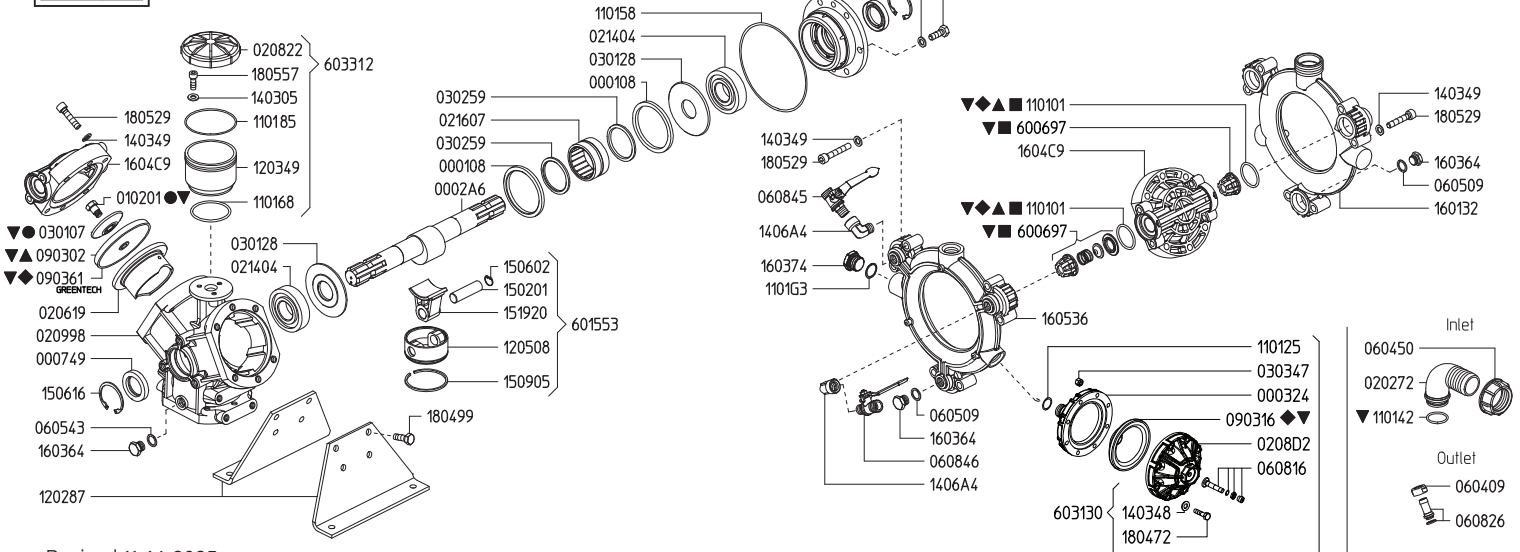
Lubrication: Requires 54 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



Maximum Flow	37.0 GPM / 140 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	17.4"L x 15.5"W x 17.2"H
Weight	62 lbs

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

8700.30CK		6062E8		6062E7		6062D9		606216	
KIT 650		KIT 649		KIT 642		KIT 515			
CODE	QTY	CODE	QTY	CODE	QTY	CODE	QTY	CODE	QTY
010201	3	090316	1	090302	3	110101	6	010201	3
030107	3	090361	3	090316	1	600697	6	030107	3
090316	1	110101	6	110101	6				
090361	3								
110101	6								
110142	1								
6063E2	6								



Revised 11-14-2025

Part #	Description	Qty
0001.08	RETAINER RING "ZETA 170/260"	2
0002.A6	SHAFT "ZETA 350/OMEGA" TS 2C	1
0003.24	PRESSURE ACCUMULATOR BASE	1
0007.49	OIL SEAL D35	2
0102.01	DIAPHRAGM BOLT ●▼	3
0202.72	HOSE BARB D40	1
0206.19	SLEEVE D75	3
0208.02	PRESSURE ACCUMULATOR COVER	1
0208.22	OIL RESERVOIR COVER	1
0209.98	CRANKCASE	1
0214.04	BALL BEARING D35	2
0216.07	ROLLER BEARING D55	1
0301.07	DIAPHRAGM DISC "ZETA/KAPPA 121/151" ●▼	3
0301.28	ROD DISC "ZETA 170/200/260/300"	2
0302.59	ROD SPACER "ZETA 230/260"	2
0303.47	HEX NUT M8X8	8
0501.L2	BUSHING FLANGE "OMEGA 135/139"	1
0604.09	BRASS NUT G1/2	1
0604.50	BARB NUT G1-1/2"	1
0605.09	GASKET D17	2
0605.43	GASKET D17	1
0608.16	AIR VALVE ASSEMBLY	1
0608.26	HOSE BARB D13+GASKET	1
0608.45	BALL VALVE RIGHT	1
0608.46	BALL VALVE LEFT	1
0903.02	PISTON DIAPHRAGM D116 BUNA-N ▲	3
0903.16	ACCUMULATOR DIAPHRAGM ▲◆▼	1
0903.61	PISTON DIAPHRAGM D116 GREENTECH ◆▼	3
1101.01	O-RING - VALVE ▲◆◆▼	6
1101.25	O-RING - ACCUMULATOR	1
1101.42	O-RING - INLET HOSE BARB▼	1
1101.58	O-RING - BEARING FLANGE	1
1101.68	O-RING - OIL RESERVOIR	1
1101.85	O-RING - OIL RESERVOIR	1
1101.G3	O-RING - PLUG	1

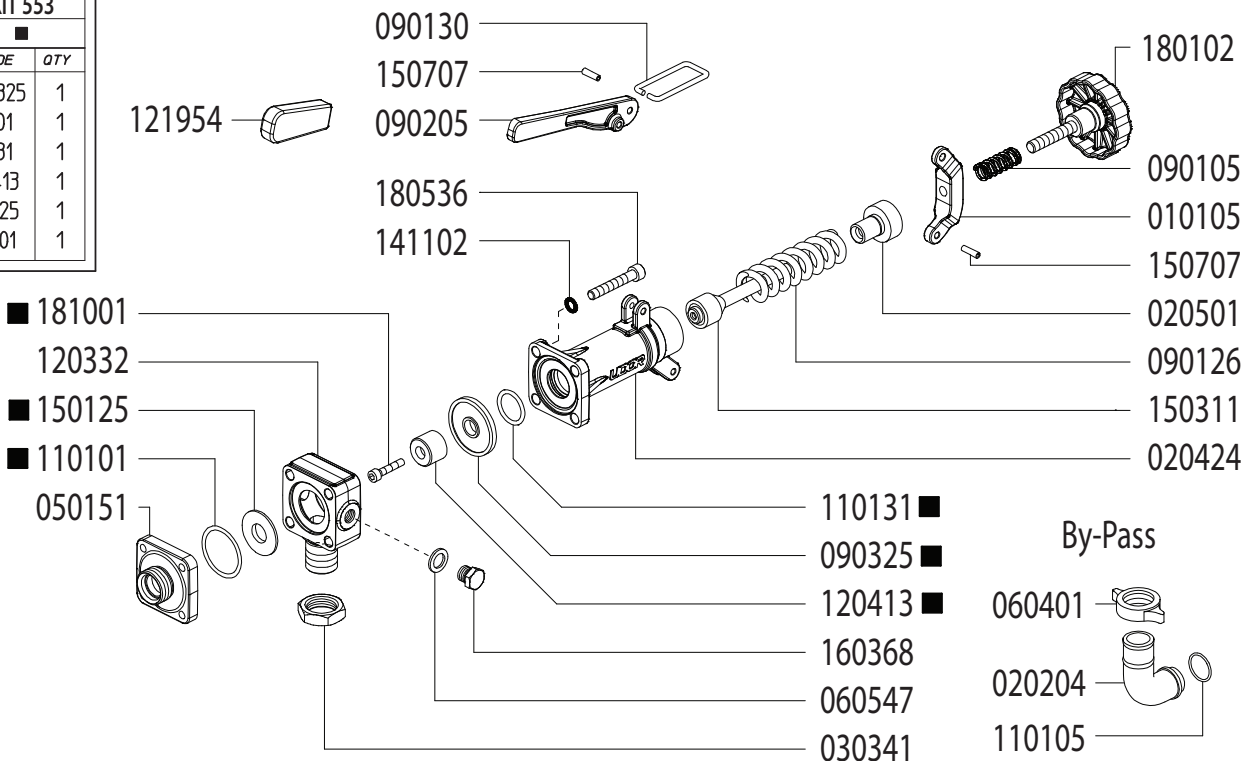
Part #	Description	Qty
1202.87	BASE PLATE	2
1203.49	OIL RESERVOIR	1
1205.08	ALUMINIUM PISTON D75	3
1403.05	WASHER D8	3
1403.48	WASHER D8.4 DACROMET	8
1403.49	WASHER M10	36
1406.A4	ELBOW G3/8 M - G3/8 F	2
1502.01	PIN D18X64	3
1506.02	SNAP RING D18	3
1506.16	SNAP RING D55	2
1509.05	PISTON RING D75	3
1519.20	CONNECTING ROD	3
1601.32	SUCTION MANIFOLD	1
1603.64	PLUG G3/8	3
1603.74	PLUG G3/4	1
1604.C9	HEAD	3
1605.36	OUTLET MANIFOLD	1
1804.72	HEX BOLT M8X50	8
1804.99	HEX BOLT M10X25	8
1805.29	ALLEN BOLT M10X55	30
1805.57	ALLEN BOLT M8X22	3
6006.97	VALVE ASSEMBLY W/O O-RING ■▼	6
6015.53	ROD ASSY "OMEGA 135" D75	3
6031.30	PRESSURE ACCUMULATOR ASSEMBLY	1
6033.12	OIL RESERVOIR ASSEMBLY	1
6062.16	DIAPHRAGM BOLT/WASHER KIT (KIT 515)	1
6062.D9	IN/OUTLET VALVE KIT (KIT 642)	1
6062.E7	DIAPHRAGM KIT - BUNA-N (KIT 649)	1
6062.E8	DIAPHRAGM KIT - GREENTECH (KIT 650)	1
8700.30CK	COMPLETE REPAIR KIT	1

- Parts in 6062.16 (Kit 515)
- Parts in 6062.D9 (Kit 642)
- ▲ Parts in 6062.E7 (Kit 649)
- ◆ Parts in 6062.E8 (Kit 650)
- ▼ Parts in 8700.30CK Complete Repair Kit)

Adjustable Pressure Regulator

Maximum Flow	47.3 GPM / 179.2 lpm
Maximum Pressure	1200 PSI / 81 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
150125	1
181001	1



Revised 7-15-2024

Part #	Description	Qty
0101.05	LEVER GUIDE	1
0202.04	1" BRASS ELBOW HOSE BARB	1
0204.24	VALVE BODY	1
0205.01	VALVE CYLINDER	1
0303.41	NUT	1
0501.51	FLANGE	1
0604.01	BARB NUT	1
0605.47	GASKET D8	1
0901.05	SPRING	1
0901.30	PRESSURE BAIL	1
0901.26	SPRING	1
0902.05	HANDLE	1
0903.25 ■	DIAPHRAGM	1
1101.01 ■	O-RING - BYPASS FLANGE	1
1101.05	O-RING - BYPASS HOSE BARB	1

Part #	Description	Qty
1101.31 ■	O-RING - VALVE BODY	1
1203.32	INLET ELBOW - 3/4" MALE BSP	1
1204.13	POPPET ■	1
1219.54	HANDLE COVER - RUBBER	1
1501.25	SEAT ■	1
1503.11	REGULATOR STEM	1
1507.07	PIN	2
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

- 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.
- 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.)
- Start unit and let run until air is evacuated from system, when only liquid is expelled from the bypass line.
- 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.

OMEGA 139 DIMENSIONS

**All Dimensions are WITHOUT
Control Unit or Regulator**

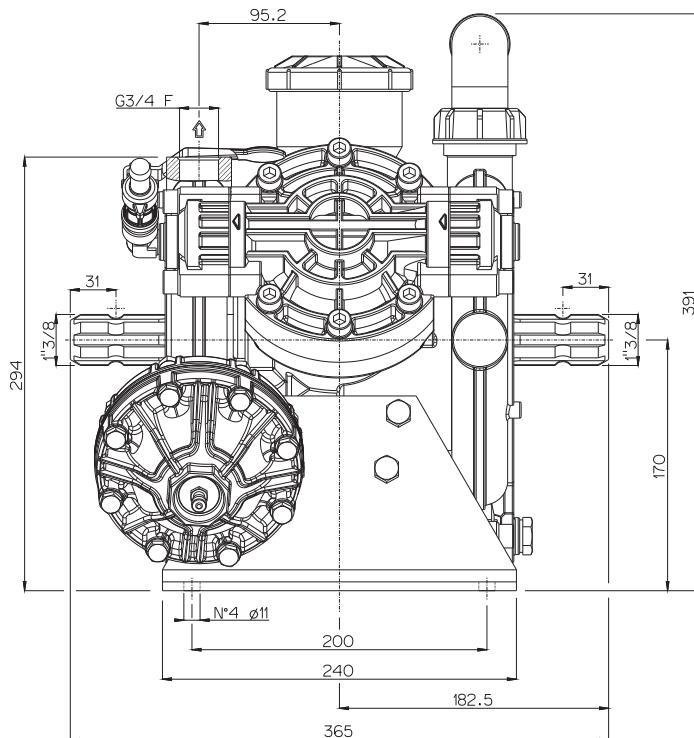
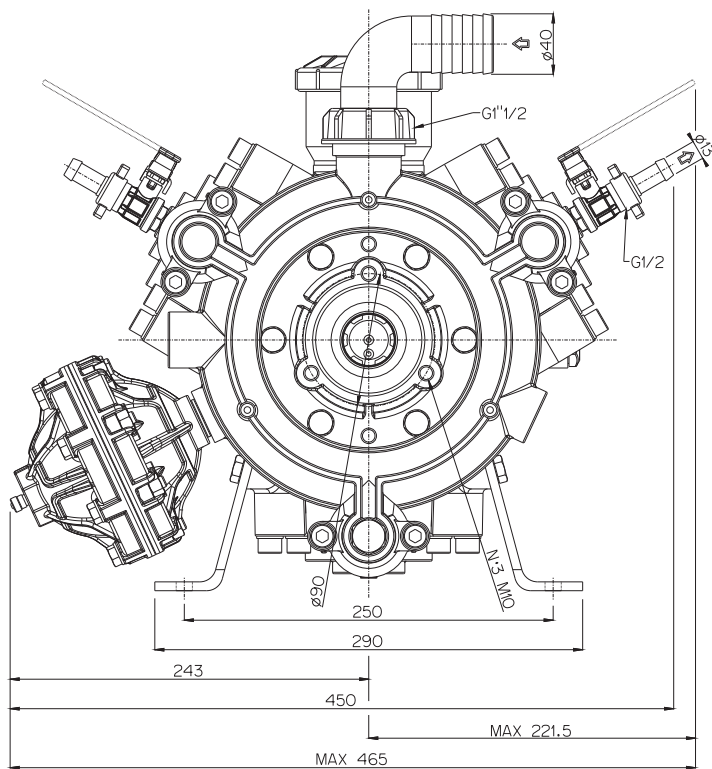
***Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937***

Specifications

OMEGA 139

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" FPT
Bypass	1" Hose Barb
Dimensions	17.4"L x 15.5"W x 17.2"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 54 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	63	85
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

