

4-Cylinder, High-Pressure Diaphragm Pumps with 4900.10 - VRG 260 Regulator



OMEGA 195 4-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 6005.08 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

OMEGA 195 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 195 TS2C	51.0	193.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	120 LBS

Specifications	OMEGA 195	Description	Part #
Inlet Port	2" Hose Barb	Diaphragm Kit (GREENTECH)	8700.07
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" FPT	Diaphragm Bolt / Washer Kit	6640.03
Bypass	1" Hose Barb	Valve Kit	6062.E1
Piston Diameter	75mm		
Crankshaft Stroke/Code	19.0mm / U		
Dimensions	17.4"L x 15.5"W x 17.2"H		

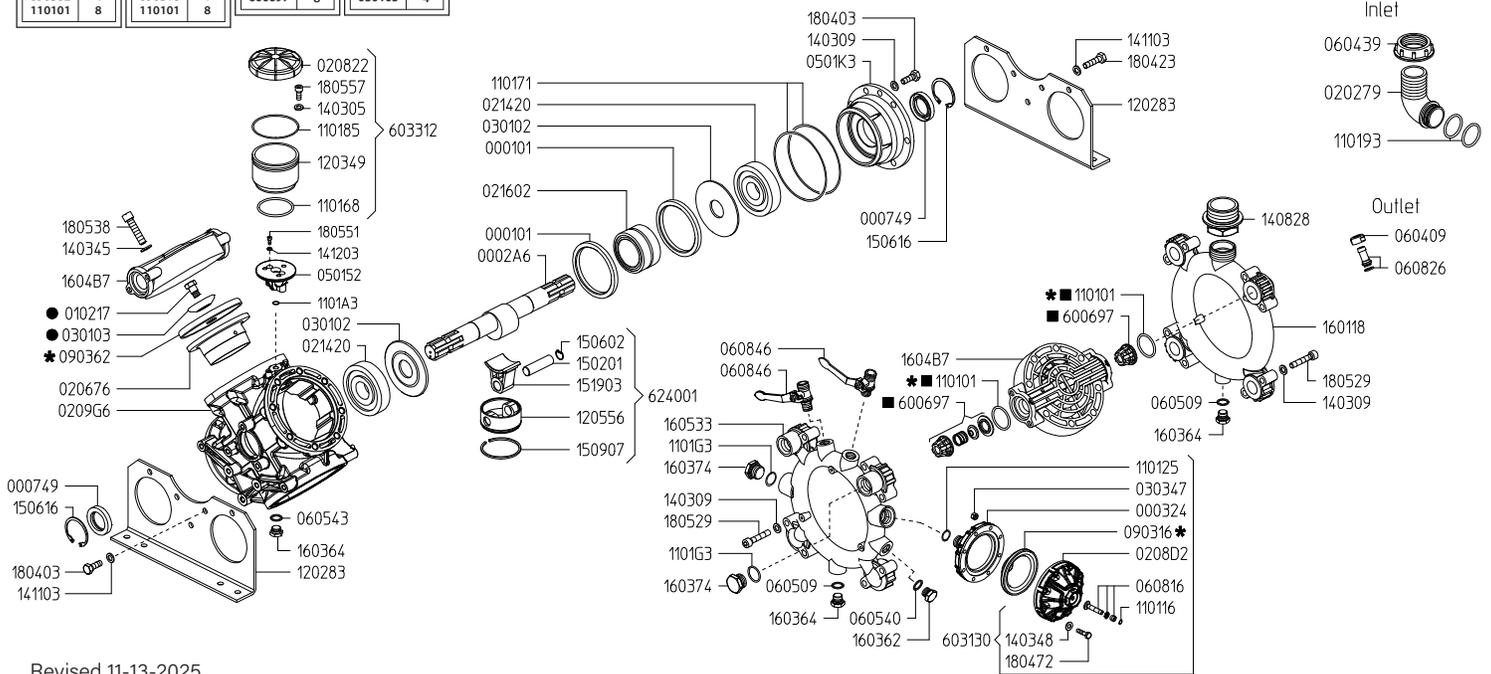
Lubrication: Requires 91 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



Maximum Flow	51.0 GPM /193.0 lpm
Maximum Pressure	725 PSI / 50 bar
Maximum RPM	550 RPM
Inlet Port	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	120 lbs

Lubrication: Requires 84 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

870007 KIT 628		606233 KIT 532		6062E1 KIT 643		664003 KIT 576	
CODE	QTY	CODE	QTY	CODE	QTY	CODE	QTY
090316	1	090301	4	110101	8	010217	4
090362	4	090316	1	600697	8	030103	4
110101	8	110101	8				



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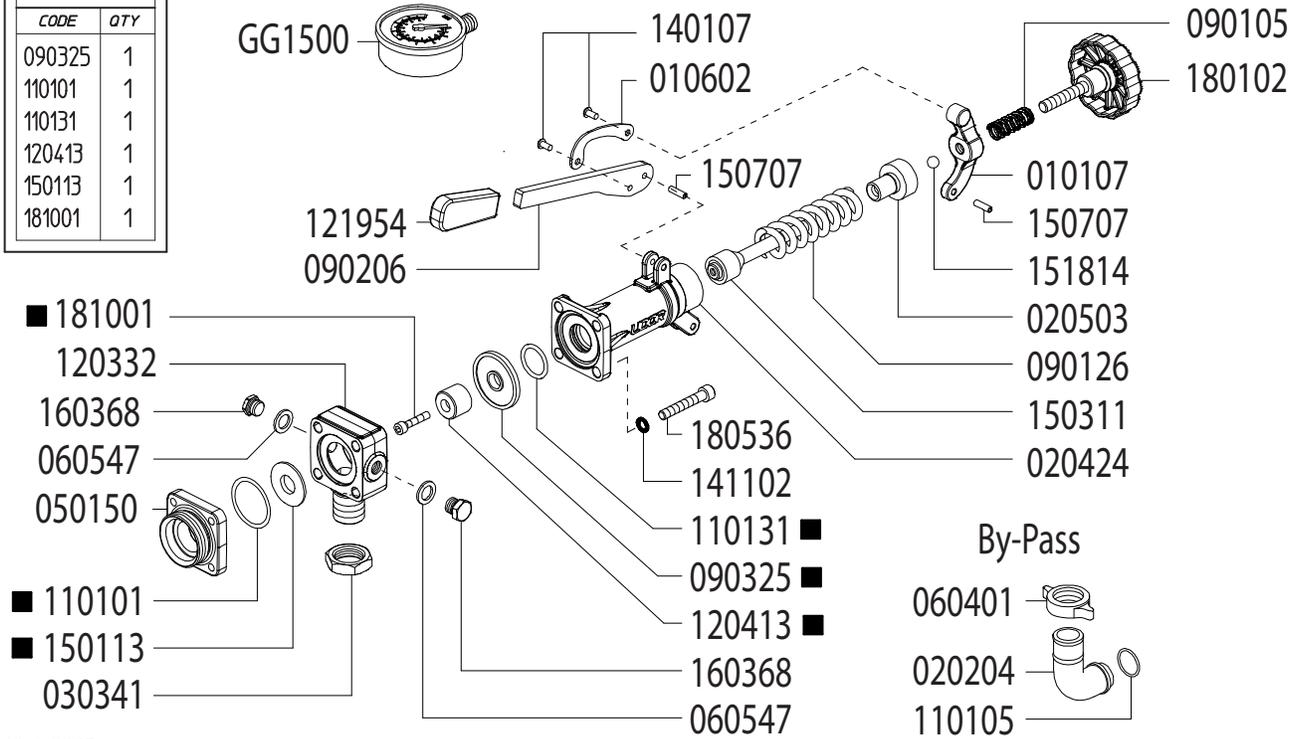
Part #	Description	Qty	Part #	Description	Qty
0001.01	RETAINER RING "BETA/OMEGA"	2	1205.56	PISTON	4
0002.A6	SHAFT "ZETA 350/OMEGA" TS 2C	1	1403.05	WASHER D8.4	3
0003.24	PRESSURE ACCUMULATOR	1	1403.09	WASHER D10.5	20
0007.49	OIL SEAL D35	2	1403.45	WASHER D13	32
0102.17	DIAPHRAGM BOLT ●	4	1403.48	WASHER D8.4	8
0202.79	HOSE BARB ELBOW - INLET D50	1	1408.28	INLET ADAPTER	1
0206.76	SLEEVE	4	1411.03	WASHER	10
0208.22	OIL RESERVOIR COVER	1	1412.03	BONDED WASHER D6.7	2
0208.D2	ACCUMULATOR COVER	1	1502.01	PIN D18X64	4
0209.G6	CRANKCASE "BETA /OMEGA"	1	1506.02	SNAP RING D18	4
0214.20	BEARING	2	1506.16	SNAP RING D55	2
0216.02	ROLLER BEARING D55	1	1509.07	PISTON RING	4
0301.02	ROD DISC BETA/OMEGA	2	1519.03	CONNECTING ROD	4
0301.03	DIAPHRAGM DISC "BETA/OMEGA" ●	4	1601.18	MANIFOLD - SUCTION	1
0303.47	HEX NUT M8X8	8	1603.62	PLUG G1/2	1
0501.52	OIL CUP SUPPORT FLANGE "BETA / OMEGA"	1	1603.64	PLUG G3/8	3
0501.K3	BEARING FLANGE	1	1603.74	PLUG G3/4	2
0604.09	HEX NUT M8X8	2	1604.B7	HEAD "OMEGA 170/195"	4
0604.39	NUT - INLET	1	1605.33	MANIFOLD - DISCHARGE	1
0605.09	GASKET D17	2	1804.03	HEX BOLT M10X30	9
0605.40	GASKET D21.5	1	1804.23	HEX BOLT M10X40	5
0605.43	GASKET D17	1	1804.72	HEX BOLT M8X50	8
0608.16	AIR VALVE ASSY	1	1805.29	ALLEN BOLT M10X55	16
0608.26	HOSE BARB D13+GASKET	2	1805.38	ALLEN BOLT M12X60	32
0608.46	BALL VALVE LEFT	2	1805.51	ALLEN BOLT M6X40	2
0903.01	PISTON DIAPHRAGM - BUNA-N D130 ▲	4	1805.57	ALLEN BOLT M8X22	3
0903.16	ACCUMULATOR DIAPHRAGM ▲◆	1	6006.97	VALVE ASSEMBLY W/O O-RING ■	8
0903.62	PISTON DIAPHRAGM - GREENTECH D130 ◆	4	6031.30	PRESSURE ACCUMULATOR ASSEMBLY	1
1101.01	O-RING - VALVE ▲■◆	8	6033.12	OIL RESERVOIR - COMPLETE	1
1101.16	O-RING - AIRVALVE	1	6240.01	OIL RESERVOIR ASSEMBLY	4
1101.25	O-RING - PULSATION DAMPENERS	1	6062.33	DIAPHRAGM KIT - BUNA-N (KIT 532)	1
1101.68	O-RING - OIL RESERVOIR	1	6062.E1	IN/OUTLET VALVE KIT "BETA 150" (KIT 643)	1
1101.71	O-RING - BEARING FLANGE	2	6640.03	DIAPHRAGM BOLT/WASHER KIT (KIT 576)	1
1101.85	O-RING - OIL RESERVOIR	1	8700.07	DIAPHRAGM KIT - GREENTECH (KIT 628)	1
1101.93	O-RING - INLET	2			
1101.A3	O-RING - OIL CUP SUPPORT FLANGE	1			
1101.G3	O-RING	2			
1202.83	BASE PLATE "OMEGA 170"	2			
1203.49	OIL RESERVOIR	1			

- ▲ Parts in 6062.33 (Kit 532)
- Parts in 6062.E1 (Kit 643)
- Parts in 6640.03 (Kit 576)
- ◆ Parts in 8700.07 (Kit 628)

Adjustable Pressure Regulator

Maximum Flow	66.0 GPM / 250 lpm
Maximum Pressure	1470 PSI /100 bar
Inlet Port	3/4" Male BSP
Outlet Ports	-
Bypass - Hose Barb	1-1/2" HB

606254	
KIT 553	
■	
<i>CODE</i>	<i>QTY</i>
090325	1
110101	1
110131	1
120413	1
150113	1
181001	1



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Part #	Description	Qty
0101.07	LEVER GUIDE	1
0106.02	PRESSURE BAIL	1
0202.84	1-1/2" 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
1101.31	O-RING - VALVE BODY	1
1101.77	O-RING - BYPASS HOSE BARB	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.

OMEGA 195 DIMENSIONS

All Dimensions are WITHOUT Control Unit or Regulator

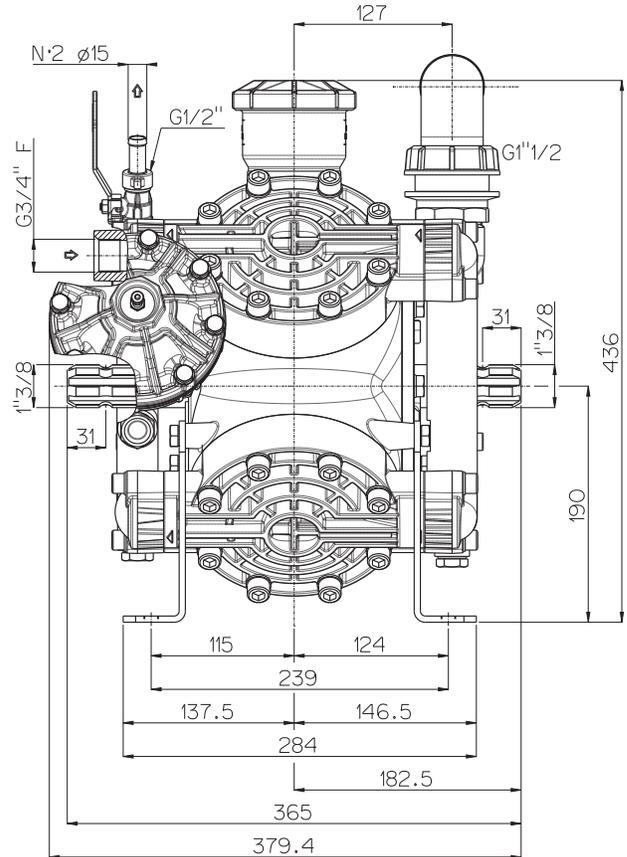
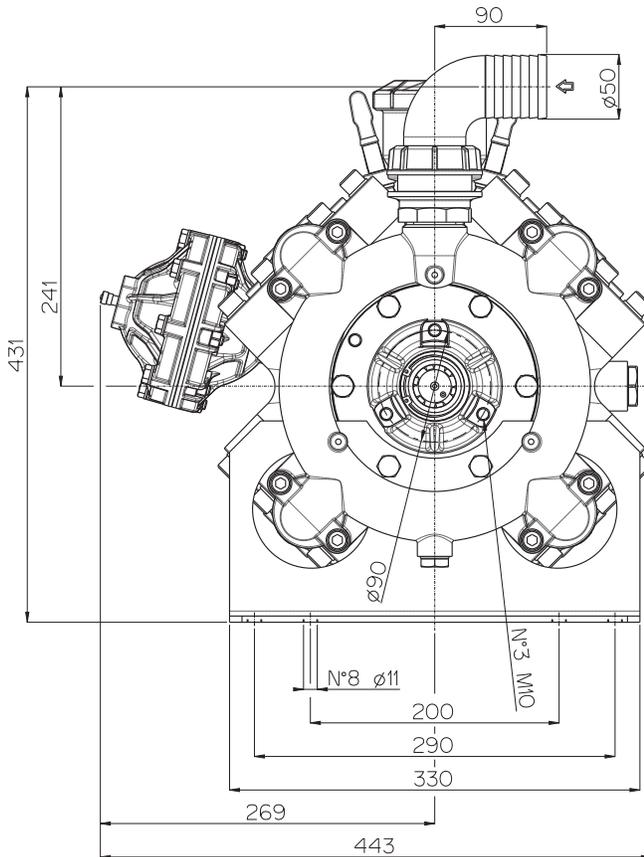
Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937

Specifications

OMEGA 195

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

Lubrication: Requires 91 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

