



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



DELTA 140 3-cylinder, high pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge.

DELTA 140 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 140 TS2C	36.4	138.0	725	49	550	1-3/8" 6-Spline Male PTO Thru-Shaft	95 LBS
DELTA 140 TSMFVA	36.4	138.0	725	49	550	1-3/8" 6-Spline Male PTO x Universal VA Face	95 LBS
DELTA 140 GR1	36.4	138.0	725	49	550	Gear Reduction for Gas Engines with 1" Shaft, 8-20 HP	115 LBS

Specifications	DELTA 140	Description	Part #
Inlet Port	1-1/2" Hose Barb	Diaphragm Kit (GREENTECH)	6062.H5
Outlet Ports	(2) 1/2" Hose Barb	Diaphragm Bolt / Washer Kit	6062.16
Bypass	1" Hose Barb	Valve Kit	6062.H6
Piston Diameter	75mm	Regulator Repair Kit	6062.53
Crankshaft Stroke/Code	19.0mm / U	Complete Repair Kit	8700.83CK
Dimensions	19.0"L x 15.5"W x 14.5"H		

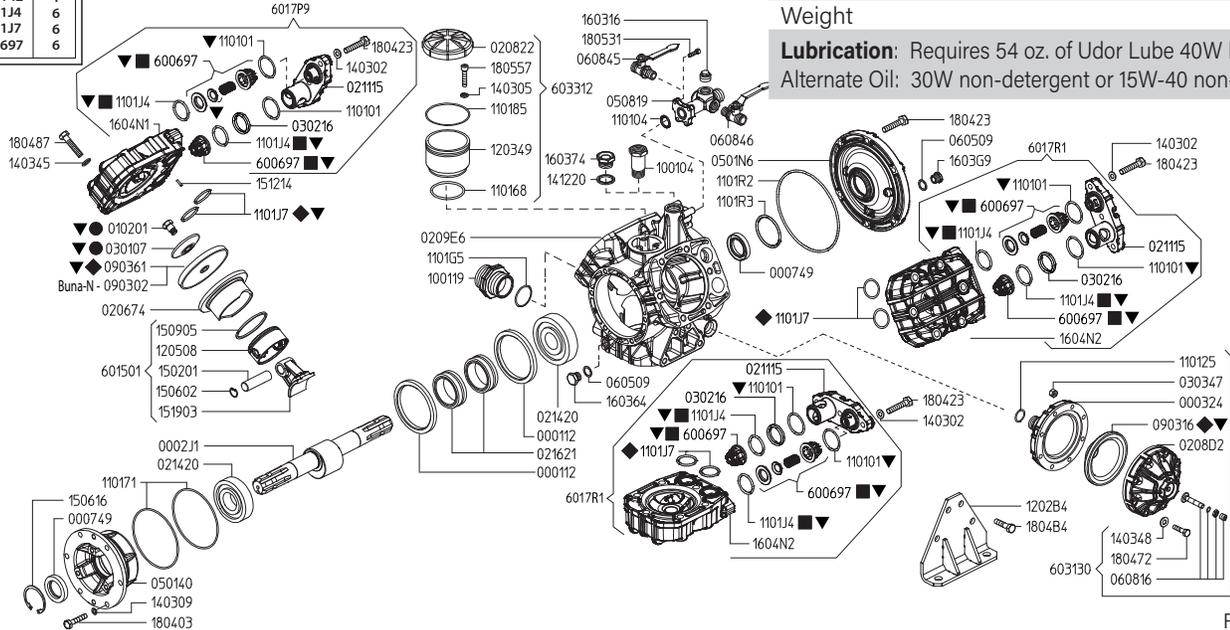
**Lubrication:** Requires 54 oz. of Udor Lube 40W Premium Pump Oil.  
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



8700.83CK		6062H5		606216		6062H6	
CODE	QTY	KIT 673		KIT 515		KIT 674	
010201	3	090316	1	010201	3	1101J4	6
030107	3	090361	3	030107	3	600697	6
090316	1	1101J7	6				
090361	3						
110101	6						
110142	1						
1101J4	6						
1101J7	6						
600697	6						

Maximum Flow	36.4 GPM / 138 lpm
Maximum Pressure	725 PSI / 49 bar
Maximum RPM	550 RPM
Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" MPT
Bypass	1" Hose Barb
Dimensions	19.0"L x 15.5"W x 14.5"H
Weight	95 lbs

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



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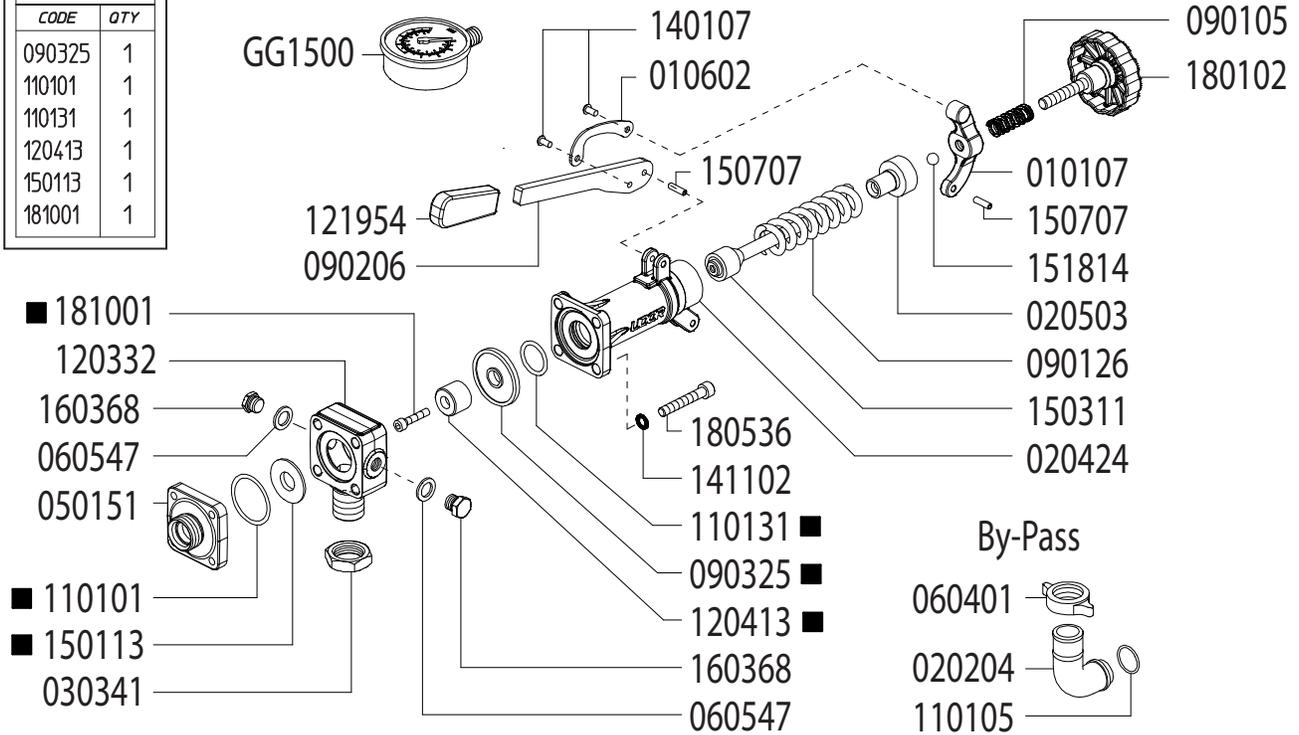
Part #	Description	Qty	Part #	Description	Qty
0001.12	RETAINER RING "DELTA 140"	2	1202.B4	BASE PLATE "DELTA 140"	2
0002.J1	SHAFT "DELTA 140" TS 2C	1	1203.49	OIL RESERVOIR	1
0003.24	PRESSURE ACCUMULATOR "DELTA 140"	1	1205.08	ALUMINIUM PISTON D75	3
0007.49	OIL SEAL D35	2	1403.02	WASHER D10.5	9
0102.01	DIAPHRAGM BOLT ●▼	3	1403.05	WASHER D8.4	3
0202.72	HOSE BARB D40	1	1403.09	WASHER D10.5	6
0206.74	SLEEVE "DELTA 140"	3	1403.45	WASHER D13	18
0208.22	OIL RESERVOIR COVER	1	1403.48	WASHER D8.4 DACROMET	8
0208.D2	ACCUMULATOR COVER	1	1412.20	WASHER	1
0209.E6	PUMP BODY "DELTA 140"	1	1502.01	PIN D18X64	3
0211.13	COVER "DELTA 140"	3	1506.02	SNAP RING D18	3
0214.20	BALL BEARING D35	2	1506.16	SNAP RING D55	1
0216.21	ROLLER BEARING D35	2	1509.05	PISTON RING D75	3
0301.07	DIAPHRAGM DISC ●▼	3	1512.14	PIN	3
0302.16	SPACER	3	1519.03	CONNECTING ROD	3
0303.47	HEX NUT M8X8	8	1603.16	PLUG G1/2	1
0501.40	FLANGE "DELTA 140" TS 2C	1	1603.64	OIL PLUG	1
0501.N6	CRANKCASE FLANGE "DELTA 140"	1	1603.74	PLUG	1
0508.19	BALL VALVE FLANGE "DELTA 140"	1	1603.G9	PLUG	1
0604.09	BRASS NUT G1/2	2	1604.N1	RIGHT HEAD "DELTA 140"	1
0604.50	BARB NUT G1-1/2"	1	1604.N2	LEFT HEAD "DELTA 140"	2
0605.09	GASKET D17	2	1804.03	HEX BOLT M10X30	6
0608.16	AIR VALVE ASSEMBLY	1	1804.23	HEX BOLT M10X40	15
0608.26	HOSE BARB D13+GASKET	2	1804.72	HEX BOLT M8X50	8
0608.45	BALL VALVE RIGHT	1	1804.87	HEX BOLT	18
0608.46	BALL VALVE LEFT	1	1804.B4	HEX BOLT	8
0903.02	PISTON DIAPHRAGM 116MM BUNA-N	3	1805.31	ALLEN BOLT M6X30	4
0903.16	ACCUMULATOR DIAPHRAGM ◆▼	1	1805.57	ALLEN BOLT	3
0903.61	PISTON DIAPHRAGM 116MM GREENTECH ◆▼	3	6006.97	VALVE ASSEMBLY W/O O-RING ■▼	6
1001.04	RISER FITTING	1	6015.01	ROD ASSY "DELTA 140" D75	3
1001.19	INLET NIPPLE	1	6017.P9	HEAD ASSEMBLY - RIGHT	1
1101.01	O-RING - VALVE COVER ▼	6	6017.R1	HEAD ASSEMBLY - LEFT	2
1101.04	O-RING - BALL VALVE FLANGE	1	6031.30	PRESSURE ACCUMULATOR ASSEMBLY	1
1101.25	O-RING - PRESSURE ACCUMULATOR	1	6033.12	OIL RESERVOIR ASSEMBLY	1
1101.42	O-RING - INLET HOSE BARB ▼	1	6062.16	DIAPHRAGM BOLT / WASHER (KIT 515)	1
1101.68	O-RING - OIL RESERVOIR	1	6062.H5	DIAPHRAGM KIT - GREENTECH (KIT 673)	1
1101.71	O-RING - CRANKSHAFT FLANGE	2	6062.H6	IN/OUT VALVE KIT (KIT 674)	1
1101.85	O-RING - OIL RESERVOIR	1	8700.83CK	COMPLETE REPAIR KIT	1
1101.G5	O-RING - INLET NIPPLE	1			
1101.J4	O-RING - VALVE ■▼	6			
1101.J7	O-RING - HEAD, VITON ◆▼	6			
1101.R2	O-RING - CRANKCASE FLANGE	1			
1101.R3	O-RING - CRANKCASE FLANGE	1			

- Parts in 6062.16 (Kit 515)
- ◆ Parts in 6062.H5 (Kit 673)
- Parts in 6062.H6 (Kit 674)
- ▼ Parts in 8700.83CK (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

<b>606254</b>	
<b>KIT 553</b>	
<b>CODE</b>	<b>QTY</b>
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
0202.04	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.

# DELTA 140 DIMENSIONS

All Dimensions are WITHOUT Control Unit or Regulator

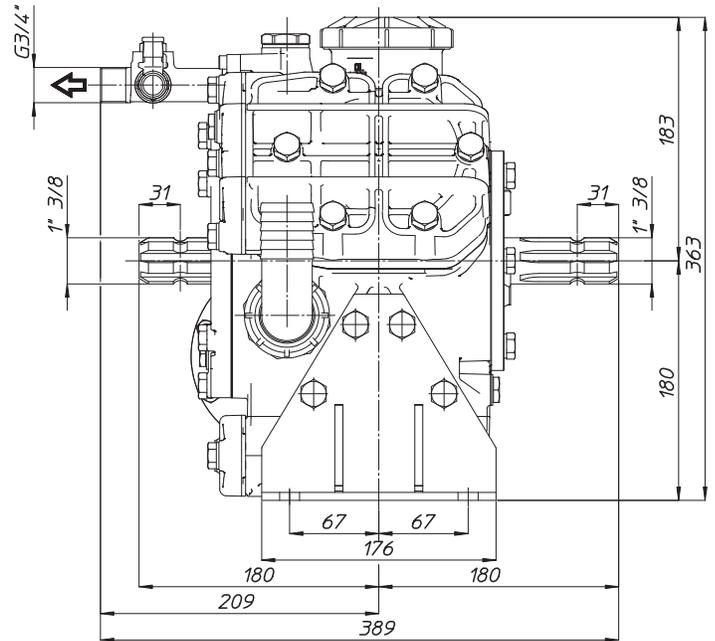
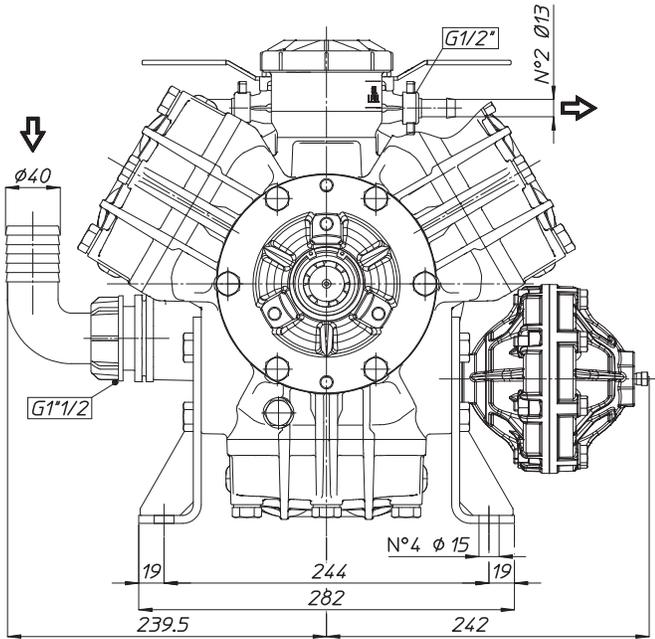
Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937

## Specifications

## DELTA 140

Inlet Port - Hose Barb	1-1/4" HB
Outlet Ports - Hose Barb	(2) 1/2" HB
Bypass - Hose Barb	3/4" HB
Dimensions	19.0" L x 15.5" W x 14.5" 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)	23	30
2	Head Bolts	37	50
3	Pulsation Dampener Bolts	18	25
4	Inlet Flange Bolts	7	10
5	Bearing Flange Bolts	25	34
6	Oil Cup Bolts	7	10
7	Valve Cover Bolts	18	25

