

4-Cylinder, High-Pressure Diaphragm Pumps



BETA-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.

BETA-195 pumps are excellent choices for various horticultural and agricultural spraying applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
BETA 195 TS2C	51.0	193.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	130 LBS

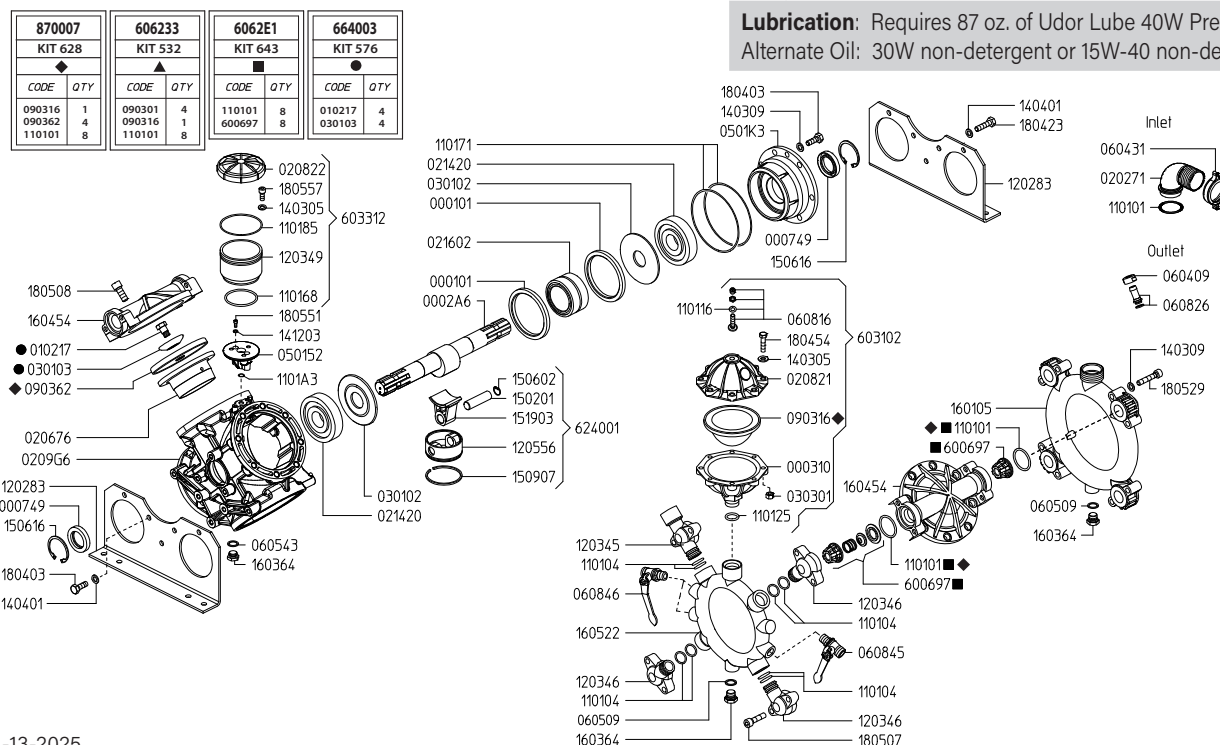
Specifications	BETA 195	Description	Part #
Inlet Port	2" Hose Barb	Diaphragm Kit (GREENTECH)	8700.07
Outlet Ports	(3) 1/2" Hose Barb, 3/4" NPT	Diaphragm Bolt / Washer Kit	6640.03
Bypass	1" Hose Barb	Valve Kit	6062.E1
Piston Diameter	75mm	Regulator Repair Kit	6062.54
Crankshaft Stroke/Code	19.0mm / U		
Dimensions	16"L x 15.5"W x 12.6"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 lpm
Maximum Pressure	725 PSI / 50 bar
Maximum RPM	550 RPM
Inlet Port	2" Hose Barb
Outlet Ports	(3) 1/2" Hose Barb Valve, 3/4" FPT
Bypass	1" Hose Barb
Dimensions	16"L x 15.5"W x 12.6"H
Weight	130 lbs

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



Revised 11-13-2025

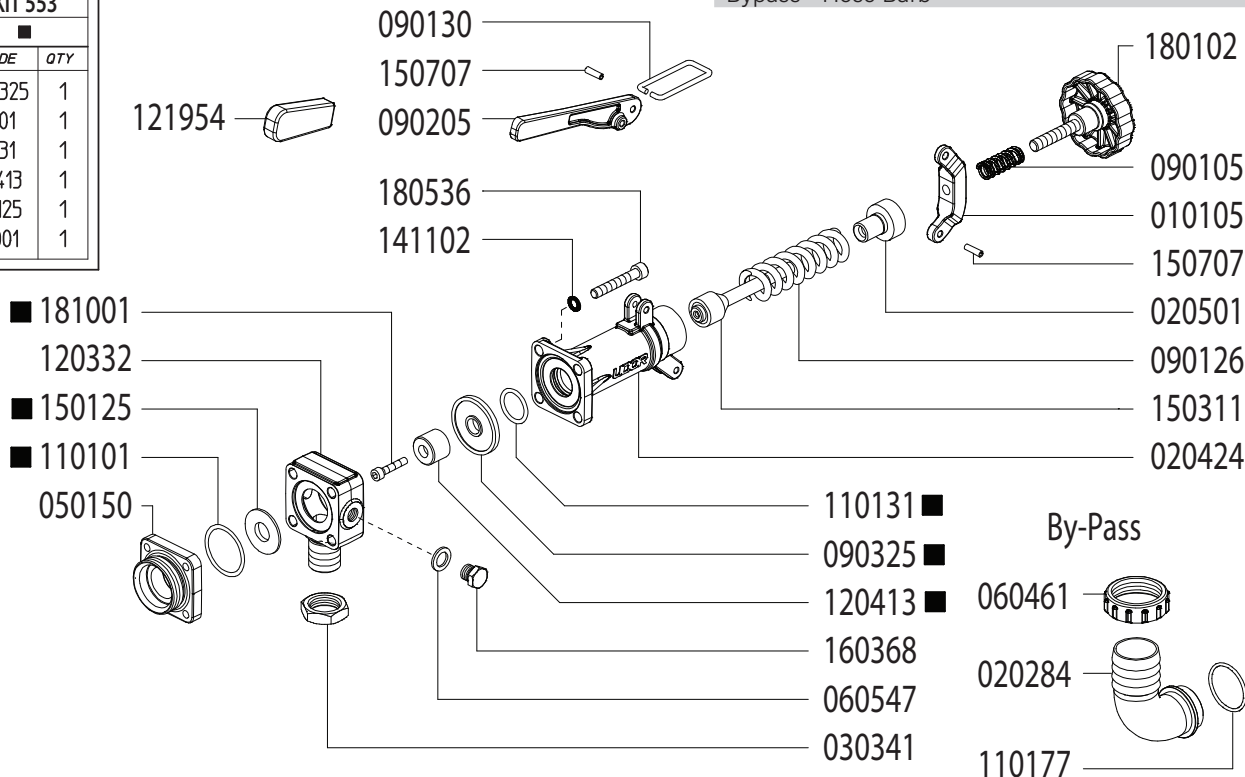
Part #	Description	Qty	Part #	Description	Qty
0001.01	RETAINER RING "BETA/OMEGA"	2	1203.45	OUTLET ELBOW "BETA"	1
0002.A6	CRANKSHAFT	1	1203.46	OUTLET ELBOW "BETA"	3
0003.10	PRESSURE ACCUMULATOR BASE	1	1203.49	OIL RESERVOIR "BETA"	1
0007.49	OIL SEAL D35	2	1205.56	ALUMINUM PISTON	4
0102.07	DIAPHRAGM BOLT ●	4	1403.05	WASHER M8	11
0202.71	HOSE BARB ELBOW - INLET	1	1403.09	WASHER M10	12
0206.76	SLEEVE	4	1404.01	WASHER	10
0208.21	PRESSURE ACCUMULATOR COVER	1	1412.03	BONDED WASHER D6.7	2
0208.22	OIL RESERVOIR COVER	1	1502.01	PIN D18X64	4
0209.G6	CRANKCASE "BETA/OMEGA"	1	1506.02	SNAP RING D18	4
0214.20	BALL BEARING	2	1506.16	SNAP RING D55	2
0216.02	ROLLER BEARING	1	1509.07	PISTON RING	4
0301.02	ROD DISC "BETA/OMEGA"	2	1519.03	CONNECTING ROD	4
0301.03	DIAPHRAGM WASHER ●	4	1601.05	MANIFOLD - SUCTION	1
0303.01	HEX NUT M8X8	8	1603.64	PLUG G3/8	3
0501.52	OIL CUP SUPPORT FLANGE "BETA / OMEGA"	1	1604.54	HEAD "BETA 110/150/195/200/240"	4
0501.K3	BEARING FLANGE	1	1605.22	MANIFOLD - DISCHARGE	1
0604.09	BRASS NUT G1/2	3	1804.03	HEX BOLT M10X30	13
0604.31	NUT - INLET HOSE BARB	1	1804.23	HEX BOLT M10X40	5
0605.09	GASKET	2	1804.54	HEX BOLT M12X50	8
0605.43	GASKET D17	1	1805.07	ALLEN BOLT M10X40	8
0608.16	AIR VALVE ASSY	1	1805.08	ALLEN BOLT M12X30	32
0608.26	HOSE BARB D13+GASKET	3	1805.29	ALLEN BOLT	8
0608.45	BALL VALVE RIGHT	1	1805.51	ALLEN BOLT M6X40	2
0608.46	BALL VALVE LEFT	2	1805.57	ALLEN BOLT M8X22	3
0903.01	PISTON DIAPHRAGM 130MM BUNA-N ▲	4	6006.97	VALVE ASSEMBLY W/O O-RING ■	8
0903.16	ACCUMULATOR DIAPHRAGM ▲◆	1	6031.02	ACCUMULATOR ASSEMBLY	1
0903.62	PISTON DIAPHRAGM 130MM GREENTECH ◆	4	6033.12	OIL RESERVOIR ASSEMBLY	1
1101.01	O-RING - VALVE ▲■◆	8	6240.01	ROD ASSEMBLY "BETA 195"	4
1101.01	O-RING - INLET BARB	1	6062.33	DIAPHRAGM KIT 130MM BUNA-N (KIT 532)	1
1101.04	O-RING - DISCHARGE ELBOWS	8	6062.E1	IN/OUTLET VALVE KIT "BETA 150" (KIT 643)	1
1101.16	O-RING	1	6640.03	DIAPHRAGM BOLT KIT (KIT 576)	1
1101.25	O-RING - PRESSURE ACCUMULATOR	1	8700.07	DIAPHRAGM KIT 130MM GREENTECH (KIT 628)	1
1101.68	O-RING - OIL RESERVOIR	1			
1101.71	O-RING - BEARING FLANGE	2			
1101.85	O-RING - OIL RESERVOIR	1			
1101.A3	O-RING - OIL CUP SUPPORT FLANGE	1			
1202.83	BASE PLATE "BETA 195"	2			

- ▲ 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	1200 PSI / 81 bar
Inlet Port	3/4" Male BSP
Outlet Ports	-
Bypass - Hose Barb	1-1/2" HB

606254 KIT 553	
CODE	QTY
090325	1
110101	1
110131	1
120413	1
150125	1
181001	1



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Part #	Description	Qty
0101.05	LEVER GUIDE	1
0202.84	1" BRASS ELBOW HOSE BARB	1
0204.24	VALVE BODY	1
0205.01	VALVE CYLINDER	1
0303.41	NUT	1
0501.50	FLANGE	1
0604.61	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
1101.31 ■	O-RING - VALVE BODY	1

Part #	Description	Qty
1101.77	O-RING - BYPASS HOSE BARB	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.

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

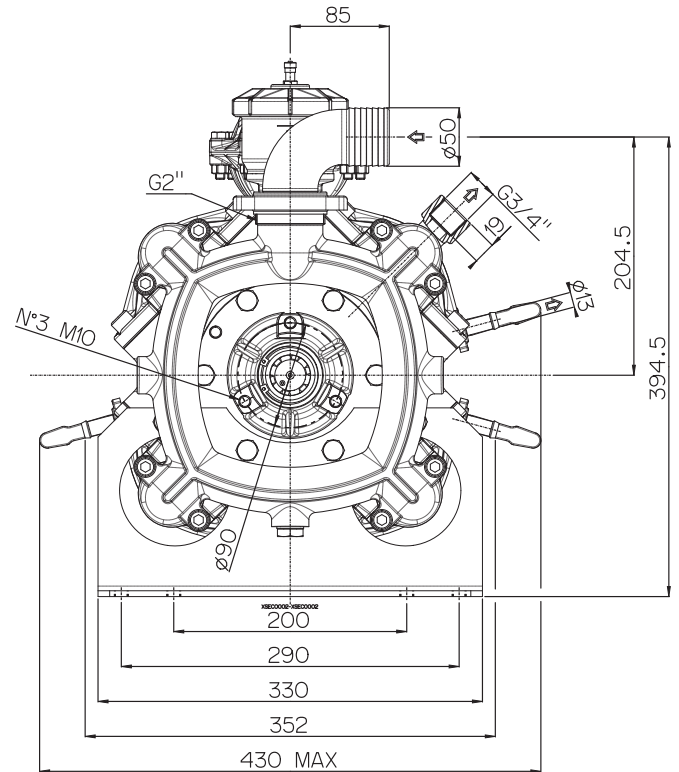
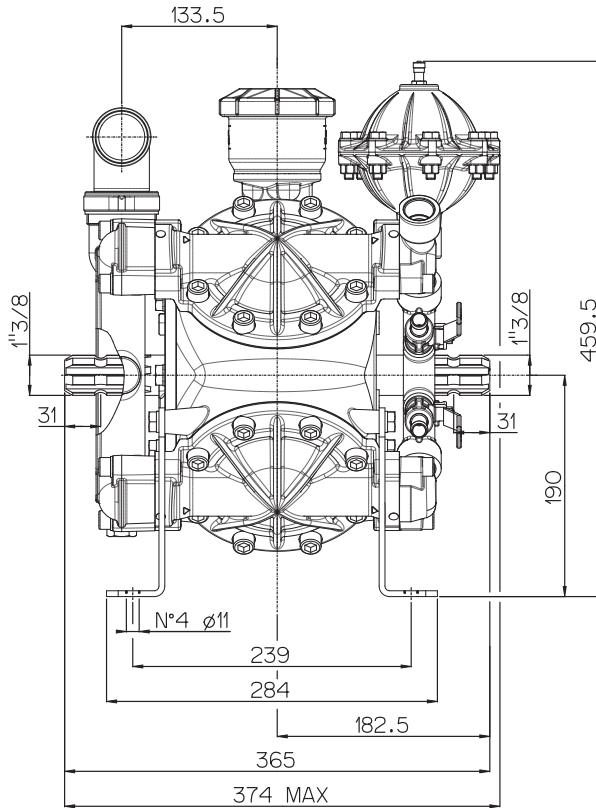
**Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937**

Specifications

BETA 195

Inlet Port - Hose Barb	2" HB
Outlet Ports - Hose Barb	(2) 1/2" HB
Bypass - Hose Barb	1" HB
Dimensions	16"L x 15.5"W x 12.6"H
Diaphragm Material	GREENTECH (Standard)

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

