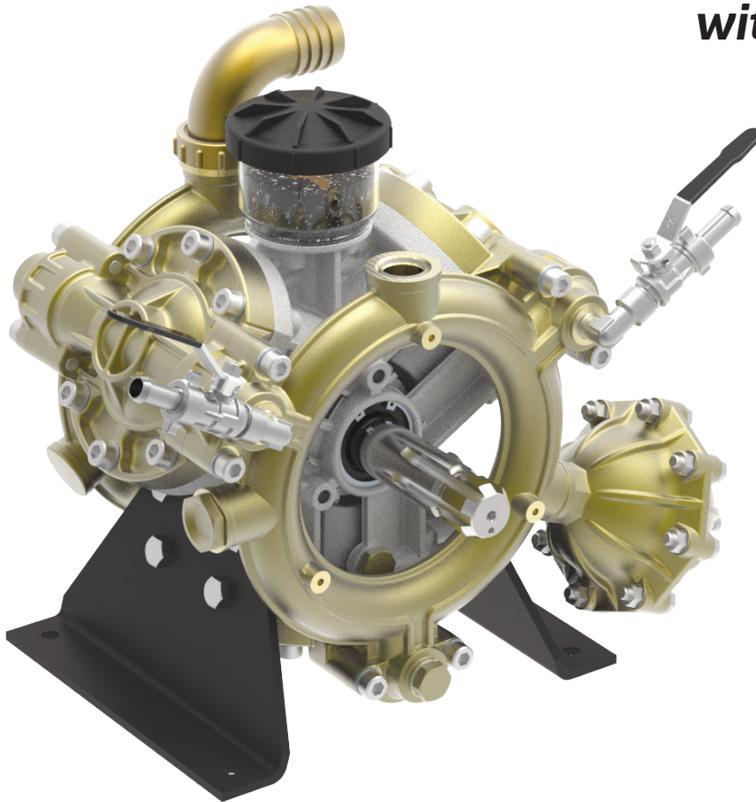




# BETA-S 135

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



**BETA-S 135** 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 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

**BETA-S 135** pumps are excellent choices for various horticultural and agricultural spraying applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
BETA-S 135 TS2C	37.0	137.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	51 LBS

Specifications	BETA-S 135	Description	Part #
Inlet Port	1-1/2" Hose Barb	Diaphragm Kit (GREENTECH)	6062.E8
Outlet Ports	(3) 3/4" Hose Barb	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	16"L x 15.5"W x 12.6"H		

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



**World Leader in  
Diaphragm and Plunger Pumps**

6180 140th Avenue NW  
Ramsey, MN 55303

Ph: 651-785-0666  
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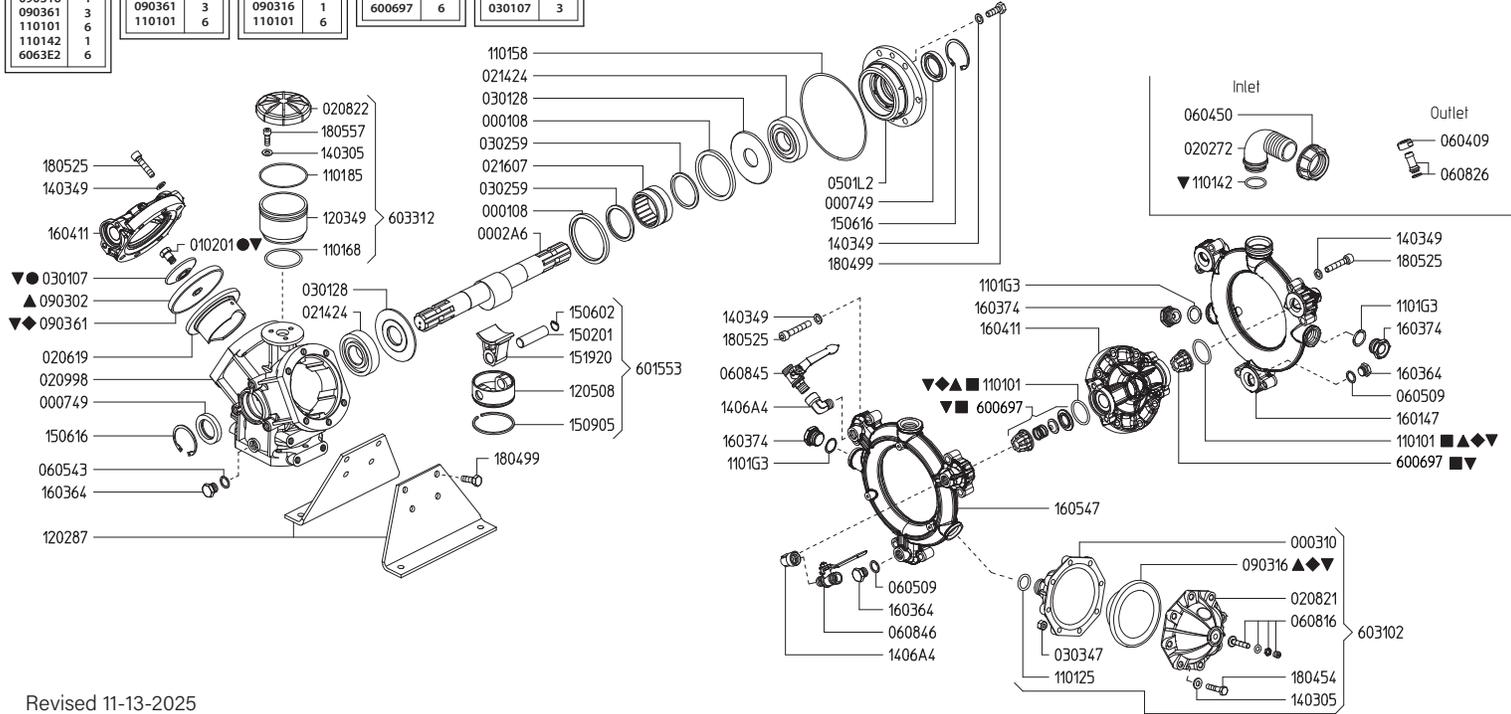
**BS135  
2025B**

# BETA-S 135 TS2C

Maximum Flow	370 GPM / 137 lpm
Maximum Pressure	725 PSI / 50 bar
Maximum RPM	550 RPM
Inlet Port	(2) 1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb Valve, 3/4" FPT
Bypass	1" Hose Barb
Dimensions	16"L x 15.5"W x 12.6"H
Weight	51 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 KIT 650		6062E7 KIT 649		6062D9 KIT 642		606216 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 11-13-2025

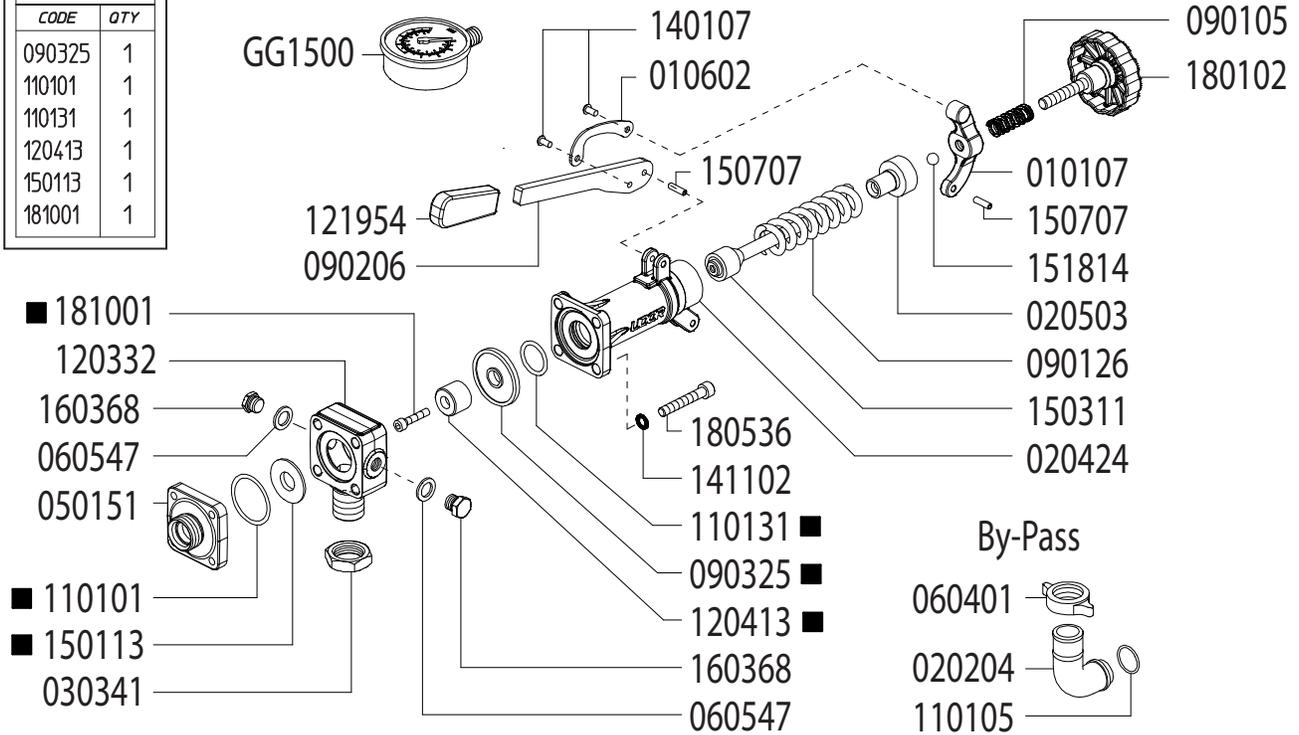
Part #	Description	Qty	Part #	Description	Qty
0001.08	RETAINER RING	2	1202.87	BASE PLATE	2
0002.A6	SHAFT TS 2C	1	1203.49	OIL RESERVOIR	1
0003.10	PRESSURE ACCUMULATOR BASE	1	1205.08	ALUMINIUM PISTON D75	3
0007.49	OIL SEAL D35	2	1403.05	WASHER M8	11
0102.01	DIAPHRAGM BOLT "ZETA/KAPPA 121" ●▼	3	1403.49	WASHER M10	38
0202.72	HOSE BARB D40	1	1406.A4	ELBOW G3/8 M - G3/8 F	2
0206.19	SLEEVE D75 "OMEGA 135/139"	3	1502.01	PIN D18X64	3
0208.21	PRESSURE ACCUMULATOR COVER	1	1506.02	SNAP RING D18	3
0208.22	OIL RESERVOIR COVER	1	1506.16	SNAP RING D55	2
0209.98	CRANKCASE	1	1509.05	PISTON RING D75	3
0214.24	BALL BEARING D35	2	1519.20	CONNECTING ROD	3
0216.07	ROLLER BEARING D55	1	1601.47	SUCTION MANIFOLD	1
0301.07	DIAPHRAGM DISC ●▼	3	1603.64	PLUG G3/8	3
0301.28	ROD DISC	2	1603.74	PLUG G3/4	3
0302.59	ROD SPACER	2	1604.11	HEAD "BETA-S 135"	3
0303.47	HEX NUT M8X8	8	1605.47	OUTLET MANIFOLD "BETA-S 135"	1
0501.L2	BUSHING FLANGE	1	1804.54	HEX BOLT M8X35	8
0604.09	BRASS NUT G1/2	1	1804.99	HEX BOLT M10X25	8
0604.50	BARB NUT G1-1/2"	1	1805.25	ALLEN BOLT M10X45	30
0605.09	GASKET D17	2	1805.57	ALLEN BOLT M8X22	3
0605.43	GASKET D17	1	6006.97	VALVE ASSEMBLY W/O O-RING ■▼	6
0608.16	AIR VALVE ASSY	1	6015.53	ROD ASSEMBLY D75	3
0608.26	HOSE BARB D13+GASKET	1	6031.02	PRESSURE ACCUMULATOR ASSEMBLY	1
0608.45	BALL VALVE RIGHT	1	6033.12	OIL RESERVOIR ASSEMBLY	1
0608.46	BALL VALVE LEFT	1	6062.16	DIAPHRAGM BOLT/WASHER KIT (KIT 515)	1
0903.02	PISTON DIAPHRAGM BUNA-N 116MM ▲	3	6062.D9	IN/OUTLET VALVE KIT (KIT 642)	1
0903.16	ACCUMULATOR DIAPHRAGM ▲◆◆▼	1	6062.E7	DIAPHRAGM KIT - BUNA-N (KIT 649)	1
0903.61	PISTON DIAPHRAGM GREENTECH 116MM ◆▼	3	6062.E8	DIAPHRAGM KIT - GREENTECH (KIT 650)	1
1101.01	O-RING - VALVE ▲◆◆▼	6	8700.30CK	COMPLETE REPAIR KIT	1
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	3			

- 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	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



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.

# BETA-S 135 DIMENSIONS

All Dimensions are WITHOUT Control Unit or Regulator

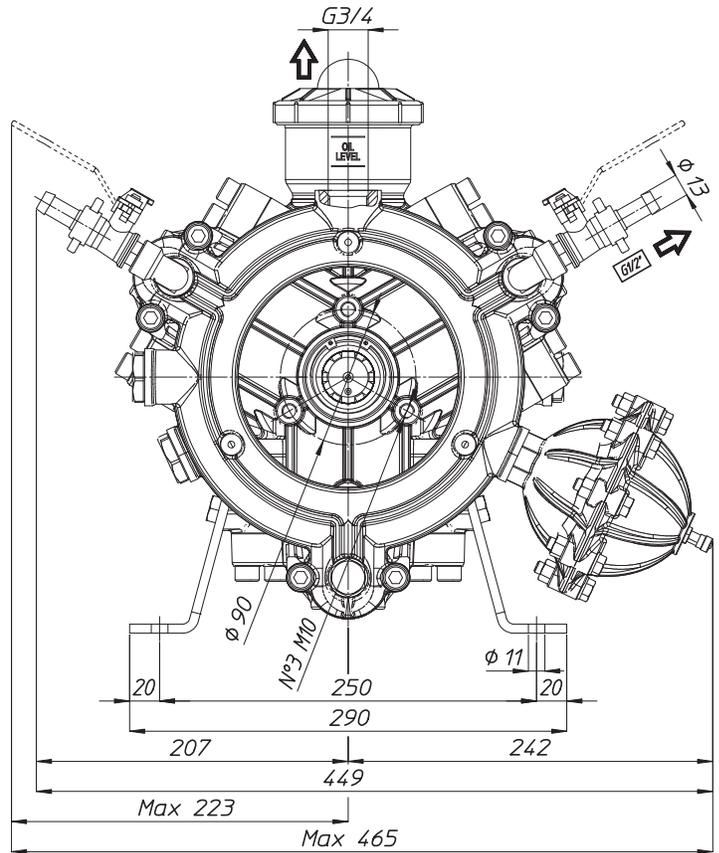
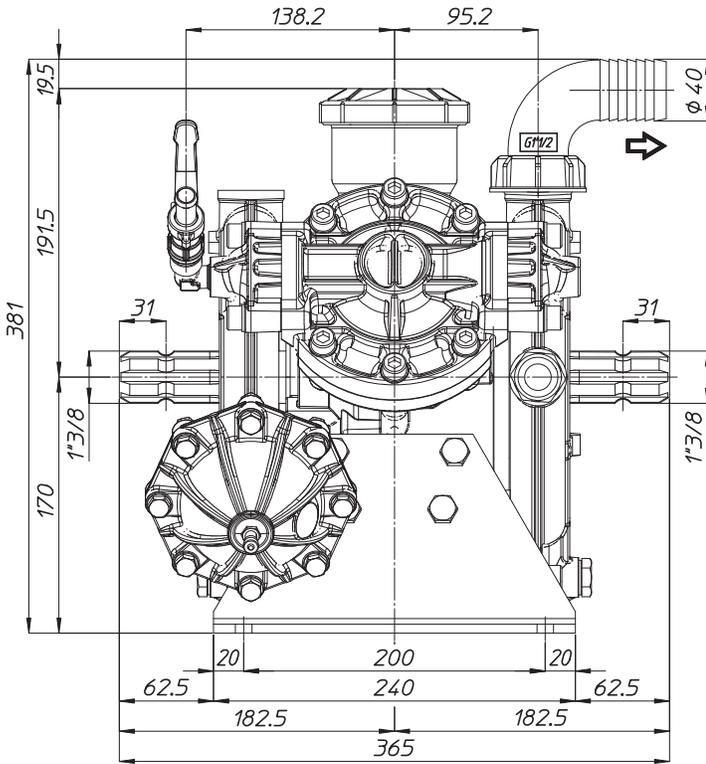
Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937

## Specifications

## BETA-S 135

Inlet Port - Hose Barb	1-1/2" HB
Outlet Ports - Hose Barb	(2) 3/4" HB
Bypass - Hose Barb	1" HB
Dimensions	16"L x 15.5"W x 12.6"H
Diaphragm Material	GREENTECH (Standard)

**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	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

