

## 3-Cylinder, Low-Pressure Diaphragm Pumps



ZETA-PP 42 low pressure 3-cylinder diaphragm pumps have anodized aluminum bodies with polypropylene heads & manifolds, and stainless steel valves. A control valve with pressure gauge is standard on all models.

ZETA-PP pumps are excellent for soft wash as well as various horticultural and agricultural spraying applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA-PP 42 VA	10.5	42	300	20	550	Universal VA Drive Face.	24.3 LBS
ZETA-PP 42 VAGR3/4	10.5	42	300	20	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	31.3 LBS
ZETA-PP 42 MI1	10.5	42	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	24.3 LBS

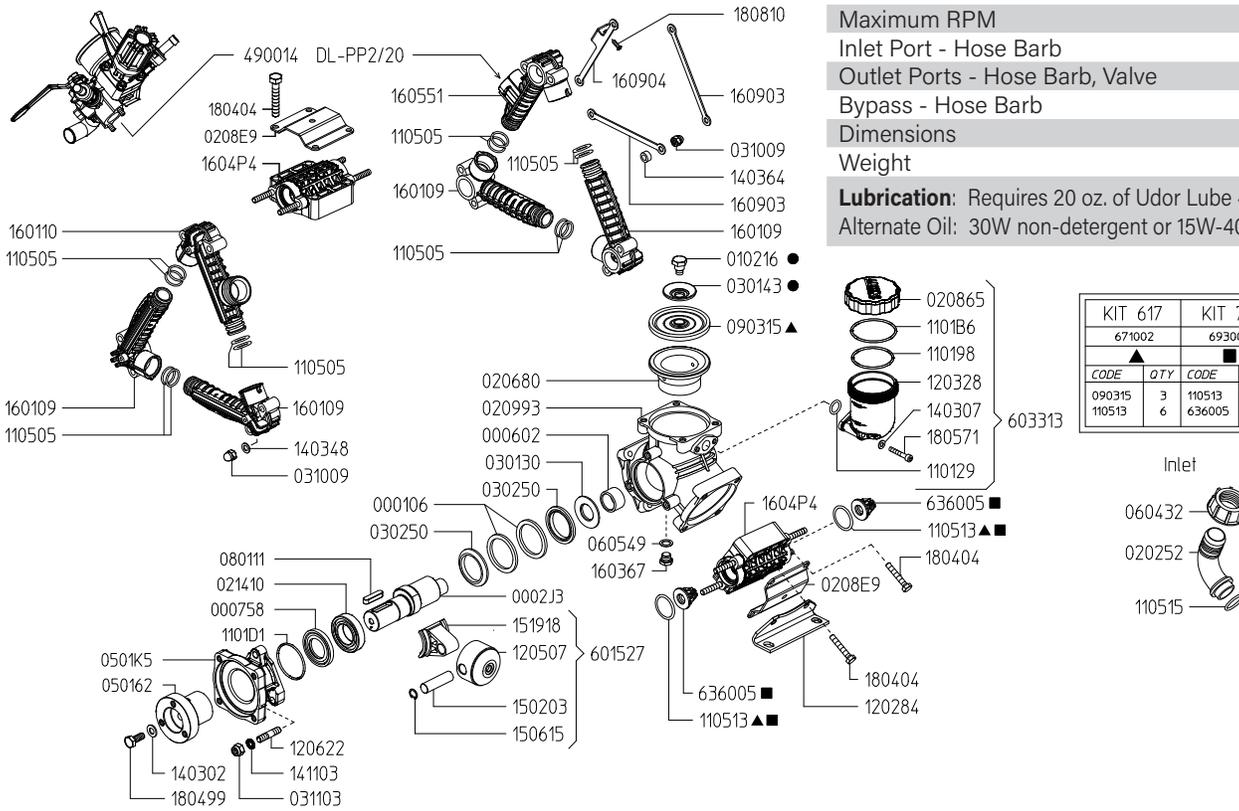
Specifications	ZETA-PP 42	Description	Part #
Inlet Port	1-1/4" Hose Barb	Diaphragm Kit - GREENTECH	6710.02
Outlet Ports - Valve	(1) 1/2" Hose Barb	Diaphragm Bolt & Washer Kit	6640.02
Bypass	3/4" Hose Barb	Valve Kit	6930.05
Piston Diameter	55.0mm		
Crankshaft Stroke/Code			
Dims. - Pump Only	11"L x 11"W x 12"H		
- GR Version	16"L x 11"W x 12"H		

**Lubrication:** Requires 20 oz. of Udor Lube 40W Premium Pump Oil.  
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



Maximum Flow	10.5 GPM / 42.0 lpm
Maximum Pressure	300 PSI / 20 bar
Maximum RPM	550 RPM
Inlet Port - Hose Barb	1-1/4" HB
Outlet Ports - Hose Barb, Valve	(2) 1/2" HB
Bypass - Hose Barb	3/4" HB
Dimensions	11"L x 11"W x 12"H
Weight	24.3 lbs

**Lubrication:** Requires 20 oz. of Udor Lube 40W Premium Pump Oil.  
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



KIT 617		KIT 76		KIT 81	
671002		693005		664002	
▲	■	●			
CODE	QTY	CODE	QTY	CODE	QTY
090315	3	110513	6	010216	3
110513	6	636005	6	030143	3

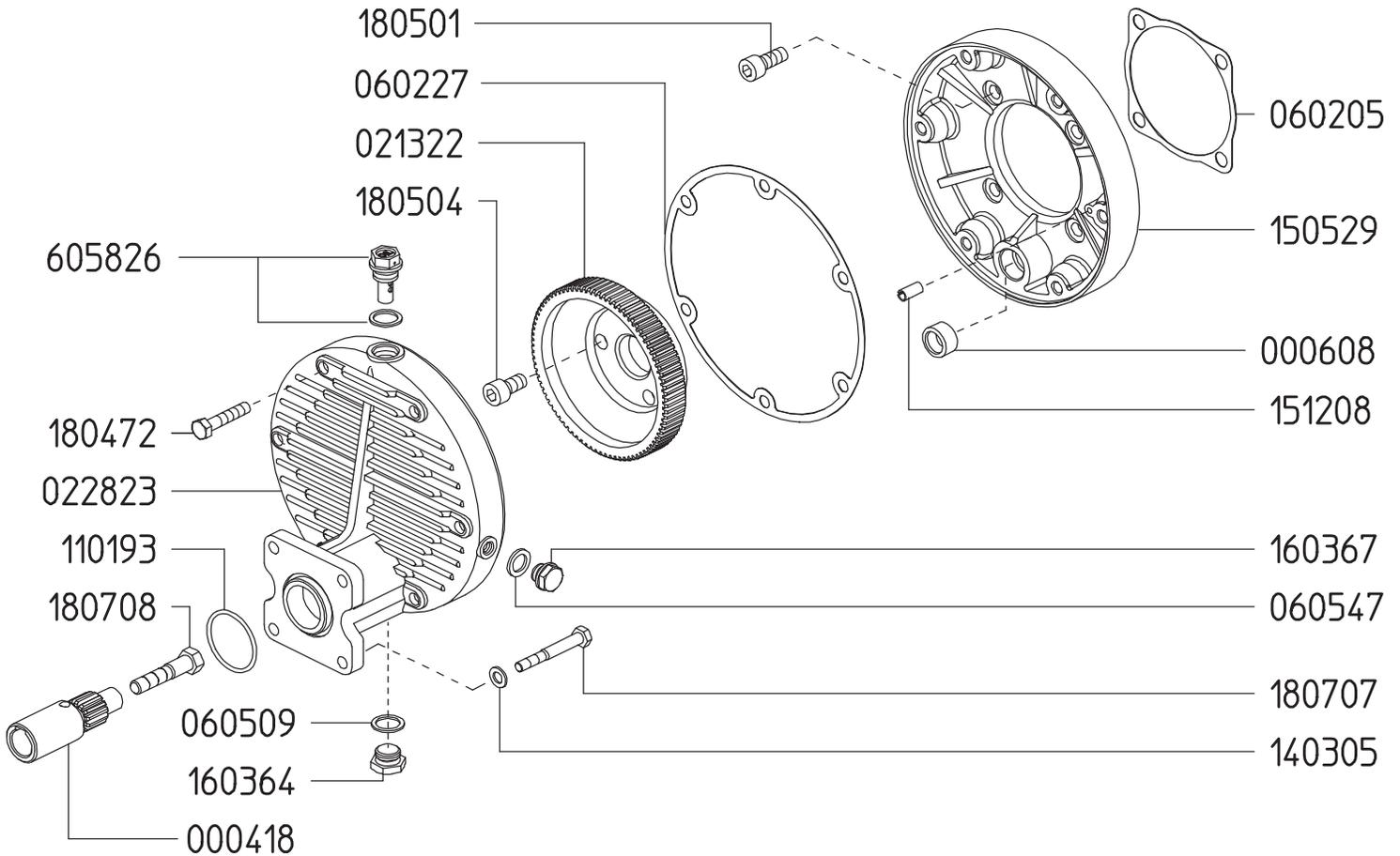


Revised 3-5-2026

Part #	Description	Qty	Part #	Description	Qty
0001.06	RETAINER RING	2	1206.22	STUD	3
0002.J3	CRANKSHAFT - ZETA-PP VA	1	1403.02	WASHER	1
0006.02	BUSHING D25	1	1403.07	WASHER	2
0007.58	OIL SEAL D35	1	1403.48	WASHER	6
0102.16	DIAPHRAGM BOLT ●	3	1403.64	SPACER	6
0202.52	INLET HOSE BARB ELBOW	1	1411.03	WASHER	3
0206.80	SLEEVE -	3	1502.03	PIN	3
0208.65	OIL RESERVOIR COVER	1	1506.15	SNAP RING	3
0208.E9	REINFORCING PLATE	3	1519.18	CONNECTING ROD	3
0209.93	CRANKCASE	1	1601.09	MANIFOLD TUBE	4
0214.10	BEARING	1	1601.10	MANIFOLD TUBE	1
0301.43	DIAPHRAGM WASHER ●	3	1603.67	PLUG	1
0302.50	ROD SPACER	2	1604.P4	HEAD	3
0310.09	NUT	12	1605.51	MANIFOLD TUBE	1
0311.03	NUT	3	1609.03	TUBE BRACE	2
0501.62	FLANGE - VA	1	1609.04	TUBE BRACE	1
0501.K5	BEARING FLANGE - VA	1	1804.04	HEX BOLT	12
0604.32	NUT - INLET BARB	1	1804.99	HEX BOLT	1
0605.49	GASKET	1	1805.71	ALLEN BOLT M6X50	2
0801.11	KEY	1	1808.10	SCREW	1
0903.15	DIAPHRAGM ▲	3	4900.14	DL-PP2/20 REGULATOR	1
1101.29	O-RING, OIL RESERVOIR	1	6015.27	CONNECTING ROD ASS'Y	3
1101.98	O-RING, OIL RESERVOIR COVER, INNER	1	6033.13	OIL RESERVOIR ASSEMBLY	1
1101.B6	O-RING, OIL RESERVOIR COVER, OUTER	1	6360.05	VALVE ASS'Y W/O O-RING ■	6
1101.D1	O-RING	1	6640.02	DIAPHRAGM BOLT & WASHER (81)	1
1105.05	O-RING	12	6710.02	DIAPHRAGM KIT GREENTECH (KIT 617)	1
1105.13	O-RING, VALVE ▲ ■	6	6930.05	IN/OUTLET VALVE KIT (KIT 76)	1
1105.15	O-RING - INLET BARB	1			
1202.84	PUMP MOUNTING RAIL	2			
1203.28	OIL RESERVOIR	1			
1205.07	PISTON	3			

- Parts in 6640.02 (Kit 81)
- Parts in 6710.02 (Kit 617)
- ▲ Parts in 6930.05 (Kit 76)

**GAS ENGINE GEAR REDUCTION FOR  
KAPPA-55, ZETA-40/85/120 DIAPHRAGM PUMPS  
on GAS ENGINES with 3/4" SHAFTS  
REQUIRES 16 OZ. 90W GEAR LUBE**

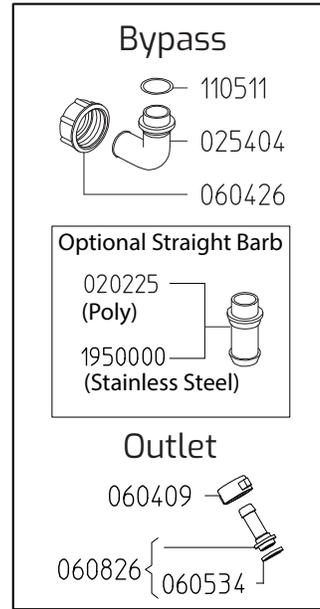
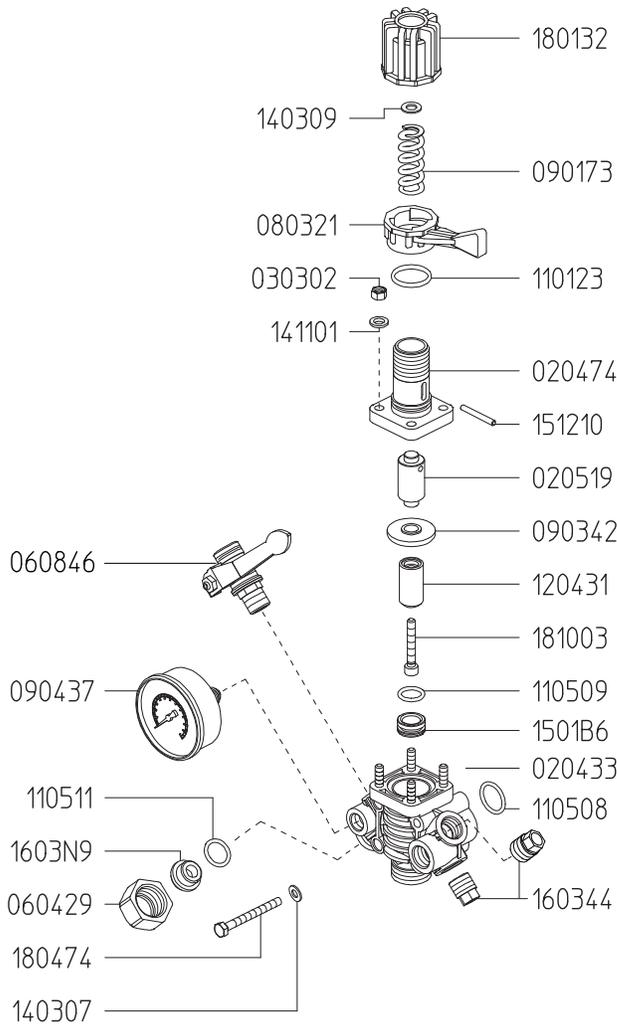


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Part #	Description	Qty	Part #	Description	Qty
0004.18	GEAR SHAFT - 3/4"	1	1505.29	GEAR CASE - PUMP	1
0006.08	BEARING	1	1512.08	ALIGNMENT PIN	1
0213.22	PUMP GEAR - VA	1	1603.64	OIL PLUG G3/8	1
0228.23	GEAR CASE - ENGINE	1	1603.67	OIL PLUG G1/4	1
0602.05	GASKET	1	1804.72	HEX BOLT M8X50	6
0602.27	GASKET	1	1805.01	ALLEN BOLT M10X25	4
0605.09	GASKET - ALUMINUM	1	1805.04	ALLEN BOLT M10X20	3
0605.47	GASKET - ALUMINUM	1	1807.07	HEX BOLT 5/16 X 1"	4
1101.93	O-RING	1	1807.08	HEX BOLT 5/16 X 2-1/4"	1
1403.05	WASHER	4	6058.26	VENTED OIL CAP	1

## Adjustable Pressure Regulator

Maximum Flow	27.0 GPM / 102 lpm
Maximum Pressure	350 PSI / 24 bar
Inlet Port - Hose Barb	-
Outlet Ports - Hose Barb, Valve	(1) 1/2" HB
Bypass - Hose Barb	3/4" HB



Revised 3-5-2026

Part #	Description	Qty	Part #	Description	Qty
0202.25	BYPASS HOSE BARB - STRAIGHT (OPTIONAL)	1	1101.23	O-RING	1
0204.33	CONTROL BODY "DL-PP" - GREEN	1	1105.08	O-RING	1
0204.74	BODY	1	1105.09	O-RING D15,08	1
0205.19	CYLINDER	1	1105.11	O-RING D17,12	1
0254.04	BYPASS HOSE BARB - ELBOW	1	1204.31	POPPET	1
0303.02	NUT	4	1403.07	WASHER	2
0604.09	BARB NUT	2	1403.09	WASHER D10,5	1
0604.26	BYPASS BARB NUT	1	1411.01	SERRATED WASHER D6	4
0604.29	BRASS NUT G3/4	1	1501.B6	SEAT "DL" D14	1
0605.34	GASKET	2	1512.10	PIN	1
0608.26	1/2" HOSE BARB W/GASKET	2	1603.44	PLUG G3/8	2
0608.46	BALL VALVE LEFT	1	1603.N9	PLUG	1
0803.21	LEVER	1	1801.32	ADJUSTABLE KNOB "DL"	1
0901.73	PRESS.SPRING "DL/20"	1	1804.74	BOLT	2
0903.42	DIAPHRAGM - BUNA	1	1810.03	STAINLESS STEEL BOLT	1
0904.37	PRESSURE GAUGE (20BAR)	1	19500.00	BYPASS HOSE BARB - STRAIGHT, SS (OPTIONAL)	1

The control unit features a manual dump valve, pressure control knob, glycerine filled pressure gauge, and two ball valve discharge ports.

1. Before operating or re-operating the pump move lever (0803.21) to the dump position (Right) so the pump will start at zero pressure. (Failure to do so will void the pump warranty.)
2. Turn pressure adjustment knob (1801.32) counter clockwise to relieve spring tension. This step only applies to the initial start up and is not necessary in daily operation of pump.
3. Start unit and let run until air is evacuated from the system.
4. Move lever (0803.21) to the pressure position (Left) open spray gun or spray boom and turn the pressure adjustment knob (1801.32) clockwise until desired operating pressure is achieved.

All Dimensions are WITHOUT Control Unit or Regulator

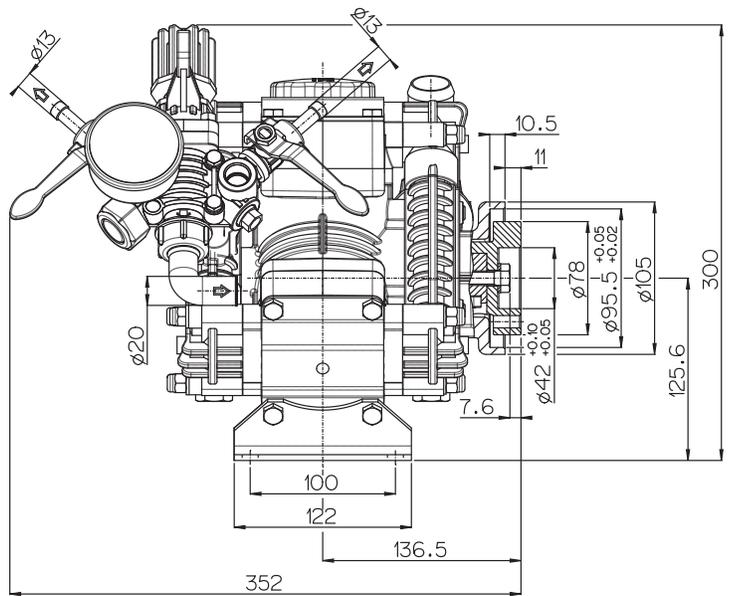
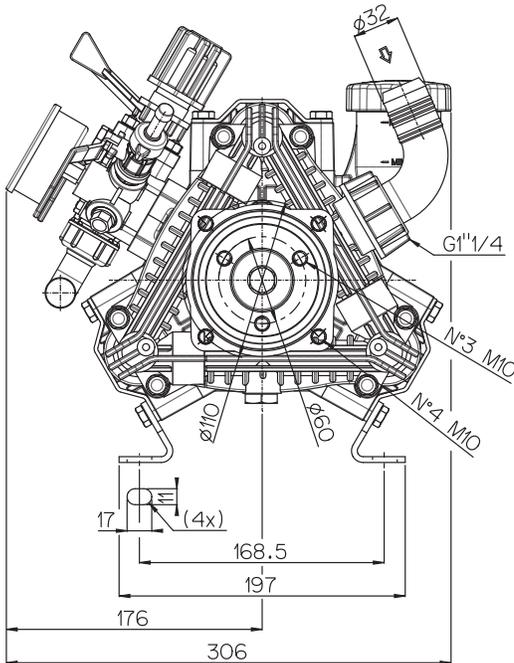
Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937

## Specifications

## ZETA-PP 42

Inlet Port - Hose Barb	1-1/4" HB
Outlet Port - Hose Barb	(2) 1/2" HB
Dimensions	11"L x 11"W x 12"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

**Lubrication:** Requires 20 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)	18	25
2	Head Bolts	18	25
3	Pulsation Dampener Bolts	18	25
4	Oil Cup Bolts	6	8
5	Manifold Bolts (Plastic)	7	10

