

PARTS BREAKDOWN FOR MODEL DPH-56/250 w/Zeta 230
RICE HYDRO, INC.

PART NUMBER..	DESCRIPTION..	QTY REQ'D
UD02-0001.08	RETAINER RING	1
UD02-0002.87	CRANKSHAFT TS 2C	1
UD02-0007.49	OIL SEAL	2
UD02-0102.01	DIAPHRAGM BOLT	6
UD02-0202.79	INLET HOSE BARB	1
UD02-0206.36	SLEEVE	6
UD02-0208.22	ONLY AVALIABLE IN UD02-6033.12	1
UD02-0209.B5	CRANKCASE	1
UD02-0214.04	BALL BEARING	2
UD02-0216.07	ROLLER BEARING	1
UD02-0301.07	DIAPHRAGM WASHER	6
UD02-0301.28	ROD DISC	2
UD02-0302.59	BEARING DISC	2
UD02-0501.H9	OIL CUP SUPPORT FLANGE	1
UD02-0501.L3	BEARING FLANGE	1
UD02-0604.39	BARB NUT	1
UD02-0604.50	** DO NOT USE **	
UD02-0605.49	GASKET	1
UD02-0903.02	PISTON DIAPHRAGM - BUNA	6
UD02-0903.61	PISTON DIAPHRAGM - GREENTECH	6
UD02-1101.01	O-RING - VALVE	12
UD02-1101.04	O-RING - DRAIN PLUG	2
UD02-1101.42	** DO NOT USE **	
UD02-1101.51	O-RING - PLUG	2
UD02-1101.56	O-RING - OIL RESERVIOR	1
UD02-1101.58	O-RING -BEARING FLANGE	1
UD02-1101.68	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1101.85	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1101.93	O-RING - INLET BARB	2
UD02-1101.G5	O-RING - MANIFOLD TUBE	24
UD02-1202.98	BASE PLATE	2
UD02-1203.49	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1205.08	ALUMINIUM PISTON	6
UD02-1403.05	ONLY AVALIABLE IN UD02-6033.12	3
UD02-1403.12	GASKET	1
UD02-1403.48	WASHER	36
UD02-1403.49	WASHER	26
UD02-1406.88	** DO NOT USE **	
UD02-1412.03	ONLY AVALIABLE IN UD02-6033.12	2
UD02-1502.01	PIN	6
UD02-1506.02	SNAP RING	6
UD02-1506.16	SNAP RING	2
UD02-1509.05	PISTON RING	6
UD02-1519.33	CONNECTING ROD	6
UD02-1601.33	SUCTION MANIFOLD	1
UD02-1601.34	INLET-OUTLET MANIFOLD	6
UD02-1603.36	PLUG	2
UD02-1603.67	PLUG	1
UD02-1603.87	PLUG	2
UD02-1604.E3	HEAD	6
UD02-1605.37	OUTLET MANIFOLD	1
UD02-1605.38	INLET-OUTLET MANIFOLD	4
UD02-1804.72	HEX BOLT M8x50	12
UD02-1804.79	HEX BOLT M8x70	24
UD02-1804.83	HEX BOLT M8x12	1
UD02-1804.99	HEX BOLT M10x25	6
UD02-1804.A2	HEX BOLT M10x75	24
UD02-1805.57	ONLY AVALIABLE IN UD02-6033.12	3

PARTS BREAKDOWN FOR MODEL DPH-56/250 w/Zeta 230
RICE HYDRO, INC.

PART NUMBER..	DESCRIPTION..	QTY REQ'D
UD02-1805.71	ONLY AVAILABLE IN UD02-6033.12	2
UD02-6006.77	VALVE ASSY W/O O-RING	12
UD02-6015.59	ROD ASSEMBLY	6
UD02-6033.12	OIL RESERVOIR ASSEMBLY	1

MISCELLANEOUS PARTS:

HONDA-GX390UT2-HA2	13 HP, 390 CC HONDA ENGINE	1
PUMP-DIA-56/250	56 GPM AT 250 PSI DIAPHRAGM PUMP	1
GAUGE-600	0-600 PSI LIQUID GAUGE	1
BALLVALVE-1&1/4	1&1/4" BALLVALVE	1
CHECKVALVE-1&1/4	1&1/4" SPRING CHECKVALVE	1
VALVE-RELIEF-300PSI	300 PSI PRESSURE REGULATOR	1
CARTON-TR6	EXTRA LARGE SHIPPING BOX	1
LABEL-KIT-DP	INSTRUCTION AND CAUTION STICKERS	1

PUMP OUTLET CONNECTIONS TO PIPING:

EL-G-1&1/2X90	1&1/2" X 90 GALV. ELBOW	1
HOSEBARB-S-1&1/2	1&1/2" BARB X MNPT	1

OUTLET HOSE:

HOSE-1&1/4-OUTLET	1&1/4" OUTLET HOSE - 8 FOOT	1
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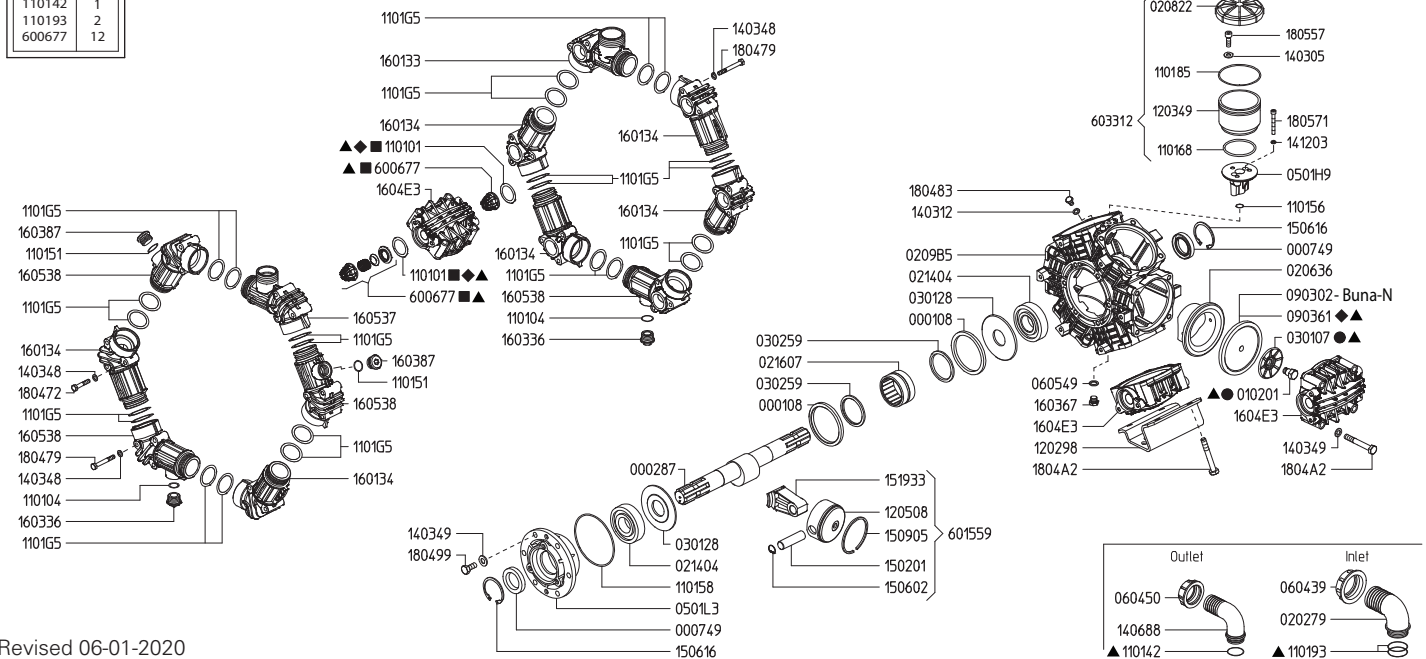
KITS:

SPEC-8700.44CK	DIAPHRAGM REPAIR KIT	1
	UD02-0102.01, DIAPHRAGM BOLT	QTY 6
	UD02-0301.07, DIAPHRAGM WASHER	QTY 6
	UD02-0903.61 DIAPHRAGM	QTY 6
	UD02-1101.01, O-RING	QTY 12
	UD02-1101.42, O-RING DISCHARGE BARB	QTY 1
	UD02-1101.93, O-RING INLET BARB	QTY 2
	UD02-6006.77, VALVE ASSEMBLY	QTY 12
UD02-6062.28	DIAPHRAGM BOLT & WASHER	1
	UD02-0102.01, DIAPHRAGM BOLT	QTY 6
	UD02-0301.07, DIAPHRAGM WASHER	QTY 6
UD02-6062.D3	INLET/OUTLET VALVE KIT	1
	UD02-1101.01, O-RING	QTY 12
	UD02-6006.77, VALVE ASSEMBLT	QTY 12
UD02-6062.H4	DIAPHRAGM KIT	1
	UD02-0903.61, DIAPHRAGM	QTY 6
	UD02-1101.01, O-RING	QTY 12

Maximum Flow	61.0 GPM / 238 lpm
Maximum Pressure	300 PSI / 20 bar
Maximum RPM	540
Inlet Port - Hose Barb	2" HB
Outlet Port - Hose Barb	1-1/2" HB
Bypass - Hose Barb	-
Dimensions	14.5" L x 15.5" W x 18.5" H
Weight	80 lbs

Lubrication: Requires 90 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

8700.44CK		606228 KIT 527		6062D3 KIT 636		6062H4 KIT 672	
CODE	QTY	CODE	QTY	CODE	QTY	CODE	QTY
010201	6	010201	6	110101	12	090361	6
030107	6	030107	6	600677	12	110101	12
090361	6						
110101	12						
110142	1						
110193	2						
600677	12						



Revised 06-01-2020

Part #	Description	Qty
0001.08	RETAINER RING	1
0002.87	CRANKSHAFT TS 2C	1
0007.49	OIL SEAL D35	2
0102.01	DIAPHRAGM BOLT ●▲	6
0202.79	INLET HOSE BARB D50	1
0206.36	SLEEVE D75	6
0208.22	OIL RESERVOIR CAP	1
0209.85	CRANKASE	1
0214.04	BALL BEARING D35	2
0216.07	ROLLER BEARING D55	1
0301.07	DIAPHRAGM WASHER ●▲	6
0301.28	ROD DISC	2
0302.59	BEARING DISC	2
0501.H9	OIL CUP SUPPORT FLANGE	1
0501.L3	BEARING FLANGE	1
0604.39	BARB NUT G2"	1
0604.50	BARB NUT G1-1/2"	1
0605.49	GASKET D13	1
0903.02	PISTON DIAPHRAGM - BUNA-N 116MM	6
0903.61	PISTON DIAPHRAGM - GREENTECH 116MM ◆▲	6
1101.01	O-RING - VALVE ◆■▲	12
1101.04	O-RING - DRAIN PLUG	2
1101.42	O-RING - DISCHARGE BARB▲	1
1101.51	O-RING - PLUG	2
1101.56	O-RING - OIL RESERVIOR	1
1101.58	O-RING - BEARING FLANGE	1
1101.68	O-RING - OIL RESERVIOR	1
1101.85	O-RING - OIL RESERVIOR	1
1101.93	O-RING - INLET BARB▲	2
1101.G5	O-RING - MANIFOLD TUBE	24
1202.98	BASE PLATE "ZETA 230/260/300"	2
1203.49	OIL RESERVOIR	1
1205.08	ALUMINIUM PISTON D75	6
1403.05	WASHER M8	3
1403.12	GASKET D8.5	1

Part #	Description	Qty
1403.48	WASHER M8	36
1403.49	WASHER M10	26
1406.88	OUTLET HOSE BARB D38	1
1412.03	BONDED WASHER M6	2
1502.01	PIN D18X64	6
1506.02	SNAP RING D18	6
1506.16	SNAP RING D55	2
1509.05	PISTON RING D75	6
1519.33	CONNECTING ROD	6
1601.33	SUCTION MANIFOLD G2" M	1
1601.34	INLET-OUTLET MANIFOLD	6
1603.36	PLUG G3/4	2
1603.67	PLUG G1/4	1
1603.87	PLUG G3/4	2
1604.E3	HEAD	6
1605.37	OUTLET MANIFOLD G1 1/2" M	1
1605.38	INLET-OUTLET MANIFOLD G3/4 F	4
1804.72	HEX BOLT M8X50	12
1804.79	HEX BOLT M8X70	24
1804.83	HEX BOLT M8X12	1
1804.99	HEX BOLT M10X25	6
1804.A2	HEX BOLT M10X75	24
1805.57	ALLEN BOLT M8X22	3
1805.71	ALLEN BOLT M6X50	2
6006.77	VALVE ASSEMBLY W/O O-RING ■▲	12
6015.59	ROD ASSEMBLY - D75 PISTON	6
6033.12	OIL RESERVOIR ASSEMBLY	1
6062.28	DIAPHRAGM BOLT & WASHER (KIT 527)	1
6062.D3	IN/OUTLET VALVE KIT "ZETA 300" (KIT 636)	1
6062.H4	DIAPHTAGM KIT - GREENTECH (KIT 672)	1
8700.44CK	COMPLETE REPAIR KIT	1

- Parts in 6062.28 (Kit 527)
- Parts in 6062.D3 (Kit 636)
- ◆ Parts in 6062.H4 (Kit 672)
- ▲ Parts in Kit 8700.44CK



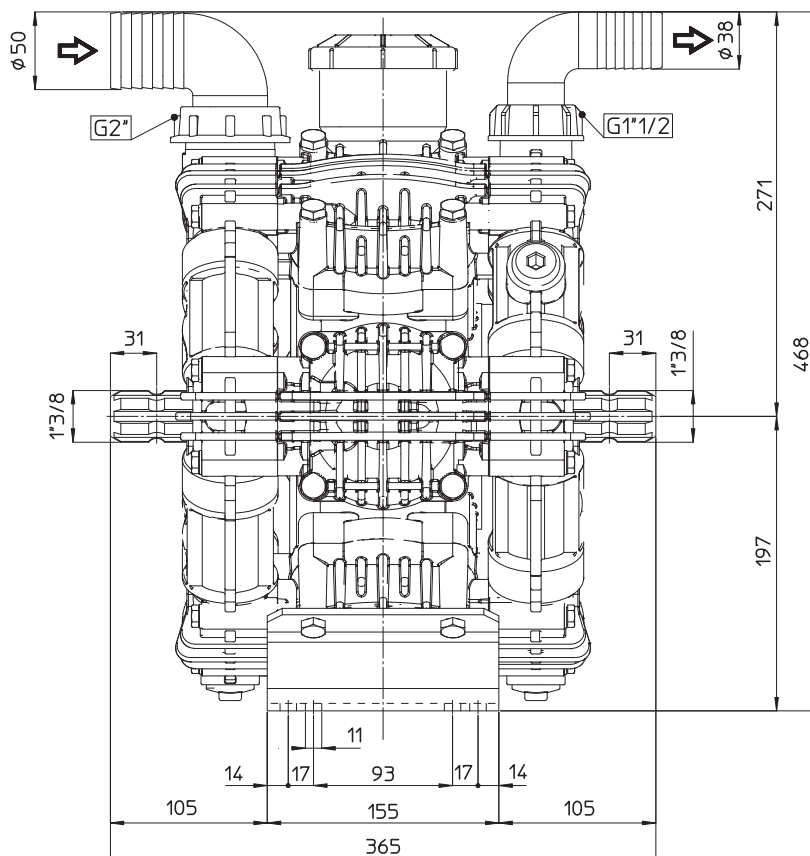
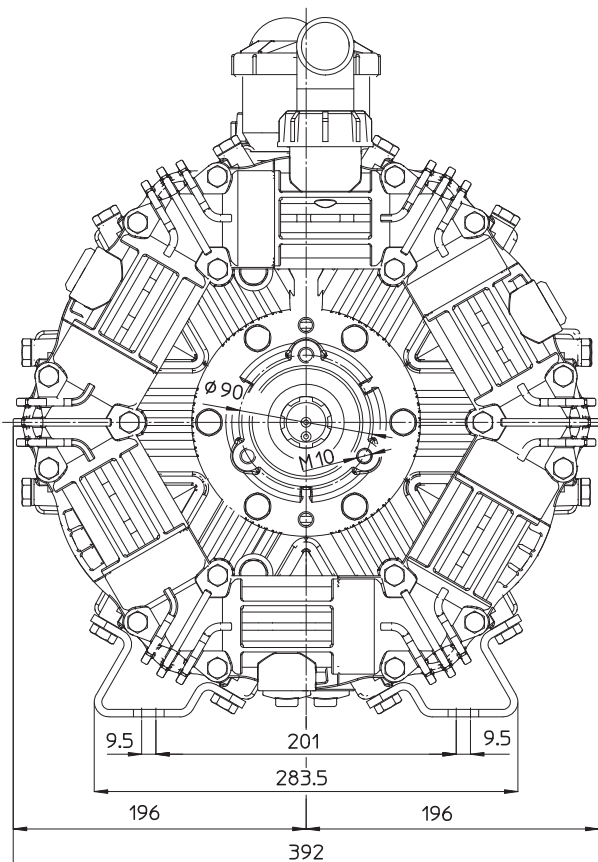
ZETA 230/260 DIMENSIONS

*All Dimensions are WITHOUT
Control Unit or Regulator*

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

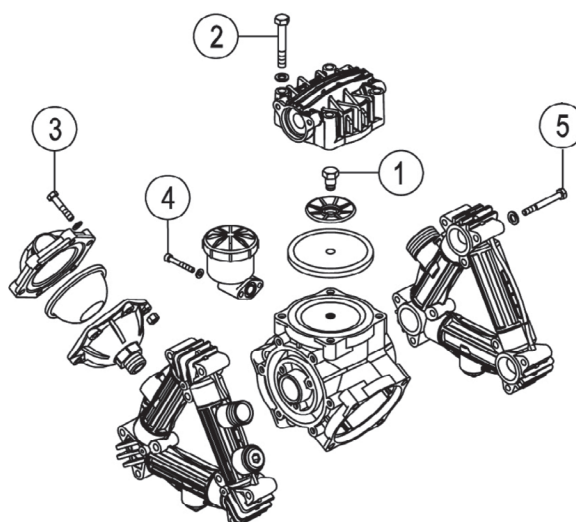
Specifications	ZETA 230	ZETA 260
Inlet Port - Hose Barb	2" HB	2" HB
Outlet Ports - Hose Barb	1-1/2" HB	1-1/2" HB
Dimensions - Pump Only	14.5"L x 15.5"W x 18.5"H	
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)	

Lubrication: Requires 39 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



TORQUE SPECS

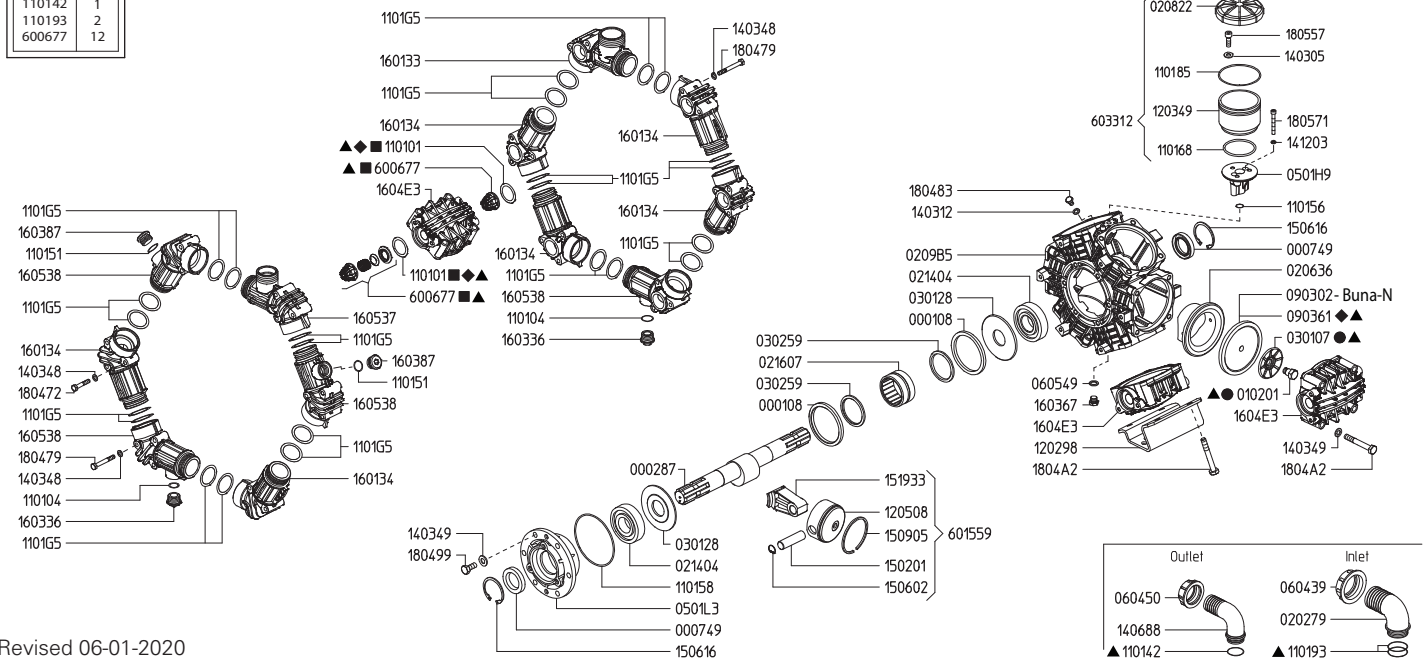
Ref.	Description	Ft./lb.	Nm
1	Diaphragm Bolts (Use Loctite 243)	22	30
2	Head Bolts	30	40
3	Pulsation Dampener Bolts	18	25
4	Oil Cup Bolts	6	8
5	Manifold Bolts (Plastic)	14	20
NS	Bearing Flange Bolts (not shown)	25	34



Maximum Flow	61.0 GPM / 238 lpm
Maximum Pressure	300 PSI / 20 bar
Maximum RPM	540
Inlet Port - Hose Barb	2" HB
Outlet Port - Hose Barb	1-1/2" HB
Bypass - Hose Barb	-
Dimensions	14.5" L x 15.5" W x 18.5" H
Weight	80 lbs

Lubrication: Requires 90 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

8700.44CK		606228 KIT 527		6062D3 KIT 636		6062H4 KIT 672	
CODE	QTY	CODE	QTY	CODE	QTY	CODE	QTY
010201	6	010201	6	110101	12	090361	6
030107	6	030107	6	600677	12	110101	12
090361	6						
110101	12						
110142	1						
110193	2						
600677	12						



Revised 06-01-2020

Part #	Description	Qty
0001.08	RETAINER RING	1
0002.87	CRANKSHAFT TS 2C	1
0007.49	OIL SEAL D35	2
0102.01	DIAPHRAGM BOLT ●▲	6
0202.79	INLET HOSE BARB D50	1
0206.36	SLEEVE D75	6
0208.22	OIL RESERVOIR CAP	1
0209.85	CRANKASE	1
0214.04	BALL BEARING D35	2
0216.07	ROLLER BEARING D55	1
0301.07	DIAPHRAGM WASHER ●▲	6
0301.28	ROD DISC	2
0302.59	BEARING DISC	2
0501.H9	OIL CUP SUPPORT FLANGE	1
0501.L3	BEARING FLANGE	1
0604.39	BARB NUT G2"	1
0604.50	BARB NUT G1-1/2"	1
0605.49	GASKET D13	1
0903.02	PISTON DIAPHRAGM - BUNA-N 116MM	6
0903.61	PISTON DIAPHRAGM - GREENTECH 116MM ◆▲	6
1101.01	O-RING - VALVE ◆■▲	12
1101.04	O-RING - DRAIN PLUG	2
1101.42	O-RING - DISCHARGE BARB▲	1
1101.51	O-RING - PLUG	2
1101.56	O-RING - OIL RESERVIOR	1
1101.58	O-RING - BEARING FLANGE	1
1101.68	O-RING - OIL RESERVIOR	1
1101.85	O-RING - OIL RESERVIOR	1
1101.93	O-RING - INLET BARB▲	2
1101.G5	O-RING - MANIFOLD TUBE	24
1202.98	BASE PLATE "ZETA 230/260/300"	2
1203.49	OIL RESERVOIR	1
1205.08	ALUMINIUM PISTON D75	6
1403.05	WASHER M8	3
1403.12	GASKET D8.5	1

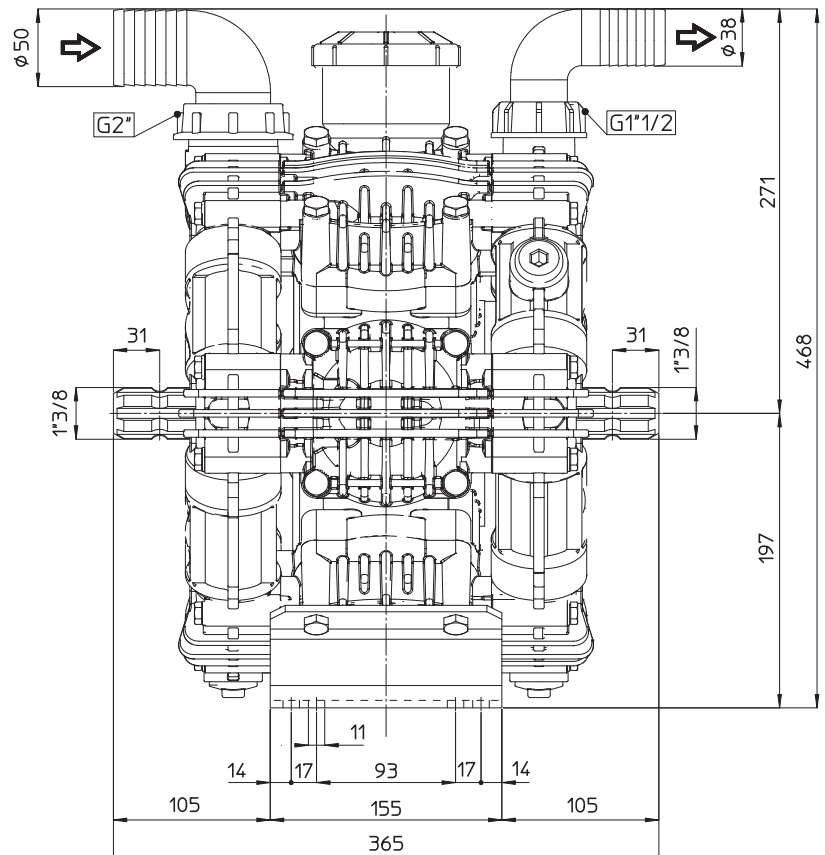
Part #	Description	Qty
1403.48	WASHER M8	36
1403.49	WASHER M10	26
1406.88	OUTLET HOSE BARB D38	1
1412.03	BONDED WASHER M6	2
1502.01	PIN D18X64	6
1506.02	SNAP RING D18	6
1506.16	SNAP RING D55	2
1509.05	PISTON RING D75	6
1519.33	CONNECTING ROD	6
1601.33	SUCTION MANIFOLD G2" M	1
1601.34	INLET-OUTLET MANIFOLD	6
1603.36	PLUG G3/4	2
1603.67	PLUG G1/4	1
1603.87	PLUG G3/4	2
1604.E3	HEAD	6
1605.37	OUTLET MANIFOLD G1 1/2" M	1
1605.38	INLET-OUTLET MANIFOLD G3/4 F	4
1804.72	HEX BOLT M8X50	12
1804.79	HEX BOLT M8X70	24
1804.83	HEX BOLT M8X12	1
1804.99	HEX BOLT M10X25	6
1804.A2	HEX BOLT M10X75	24
1805.57	ALLEN BOLT M8X22	3
1805.71	ALLEN BOLT M6X50	2
6006.77	VALVE ASSEMBLY W/O O-RING ■▲	12
6015.59	ROD ASSEMBLY - D75 PISTON	6
6033.12	OIL RESERVOIR ASSEMBLY	1
6062.28	DIAPHRAGM BOLT & WASHER (KIT 527)	1
6062.D3	IN/OUTLET VALVE KIT "ZETA 300" (KIT 636)	1
6062.H4	DIAPHTAGM KIT - GREENTECH (KIT 672)	1
8700.44CK	COMPLETE REPAIR KIT	1

- Parts in 6062.28 (Kit 527)
- Parts in 6062.D3 (Kit 636)
- ◆ Parts in 6062.H4 (Kit 672)
- ▲ Parts in Kit 8700.44CK



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

Lubrication: Requires 39 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



This diagram shows an exploded view of a mechanical assembly. The components are labeled with circled numbers and leader lines:

- 1**: A small cylindrical pin or screw.
- 2**: A long, thin bolt or screw.
- 3**: A small, curved bracket or clip.
- 4**: A small, cylindrical component, possibly a bush or spacer.
- 5**: A long, thin bolt or screw, similar to component 2.

The assembly includes a central motor or actuator unit, two large, complex mechanical arms or linkages, and various smaller components like gears, bearings, and fasteners.

Ref.	Description	Ft./lb.	Nm
1	Diaphragm Bolts (Use Loctite 243)	22	30
2	Head Bolts	30	40
3	Pulsation Dampener Bolts	18	25
4	Oil Cup Bolts	6	8
5	Manifold Bolts (Plastic)	14	20
NS	Bearing Flange Bolts (not shown)	25	34

PARTS BREAKDOWN FOR MODEL DPH-56/250 w/Zeta 230
RICE HYDRO, INC.

PART NUMBER..	DESCRIPTION..	QTY REQ'D
UD02-0001.08	RETAINER RING	1
UD02-0002.87	CRANKSHAFT TS 2C	1
UD02-0007.49	OIL SEAL	2
UD02-0102.01	DIAPHRAGM BOLT	6
UD02-0202.79	INLET HOSE BARB	1
UD02-0206.36	SLEEVE	6
UD02-0208.22	ONLY AVALIABLE IN UD02-6033.12	1
UD02-0209.B5	CRANKCASE	1
UD02-0214.04	BALL BEARING	2
UD02-0216.07	ROLLER BEARING	1
UD02-0301.07	DIAPHRAGM WASHER	6
UD02-0301.28	ROD DISC	2
UD02-0302.59	BEARING DISC	2
UD02-0501.H9	OIL CUP SUPPORT FLANGE	1
UD02-0501.L3	BEARING FLANGE	1
UD02-0604.39	BARB NUT	1
UD02-0604.50	** DO NOT USE **	
UD02-0605.49	GASKET	1
UD02-0903.02	PISTON DIAPHRAGM - BUNA	6
UD02-0903.61	PISTON DIAPHRAGM - GREENTECH	6
UD02-1101.01	O-RING - VALVE	12
UD02-1101.04	O-RING - DRAIN PLUG	2
UD02-1101.42	** DO NOT USE **	
UD02-1101.51	O-RING - PLUG	2
UD02-1101.56	O-RING - OIL RESERVIOR	1
UD02-1101.58	O-RING -BEARING FLANGE	1
UD02-1101.68	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1101.85	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1101.93	O-RING - INLET BARB	2
UD02-1101.G5	O-RING - MANIFOLD TUBE	24
UD02-1202.98	BASE PLATE	2
UD02-1203.49	ONLY AVALIABLE IN UD02-6033.12	1
UD02-1205.08	ALUMINIUM PISTON	6
UD02-1403.05	ONLY AVALIABLE IN UD02-6033.12	3
UD02-1403.12	GASKET	1
UD02-1403.48	WASHER	36
UD02-1403.49	WASHER	26
UD02-1406.88	** DO NOT USE **	
UD02-1412.03	ONLY AVALIABLE IN UD02-6033.12	2
UD02-1502.01	PIN	6
UD02-1506.02	SNAP RING	6
UD02-1506.16	SNAP RING	2
UD02-1509.05	PISTON RING	6
UD02-1519.33	CONNECTING ROD	6
UD02-1601.33	SUCTION MANIFOLD	1
UD02-1601.34	INLET-OUTLET MANIFOLD	6
UD02-1603.36	PLUG	2
UD02-1603.67	PLUG	1
UD02-1603.87	PLUG	2
UD02-1604.E3	HEAD	6
UD02-1605.37	OUTLET MANIFOLD	1
UD02-1605.38	INLET-OUTLET MANIFOLD	4
UD02-1804.72	HEX BOLT M8x50	12
UD02-1804.79	HEX BOLT M8x70	24
UD02-1804.83	HEX BOLT M8x12	1
UD02-1804.99	HEX BOLT M10x25	6
UD02-1804.A2	HEX BOLT M10x75	24
UD02-1805.57	ONLY AVALIABLE IN UD02-6033.12	3

PARTS BREAKDOWN FOR MODEL DPH-56/250 w/Zeta 230
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UD02-1805.71	ONLY AVAILABLE IN UD02-6033.12	2
UD02-6006.77	VALVE ASSY W/O O-RING	12
UD02-6015.59	ROD ASSEMBLY	6
UD02-6033.12	OIL RESERVOIR ASSEMBLY	1

MISCELLANEOUS PARTS:

HONDA-GX390UT2-HA2	13 HP, 390 CC HONDA ENGINE	1
PUMP-DIA-56/250	56 GPM AT 250 PSI DIAPHRAGM PUMP	1
GAUGE-600	0-600 PSI LIQUID GAUGE	1
BALLVALVE-1&1/4	1&1/4" BALLVALVE	1
CHECKVALVE-1&1/4	1&1/4" SPRING CHECKVALVE	1
VALVE-RELIEF-300PSI	300 PSI PRESSURE REGULATOR	1
CARTON-TR6	EXTRA LARGE SHIPPING BOX	1
LABEL-KIT-DP	INSTRUCTION AND CAUTION STICKERS	1

PUMP OUTLET CONNECTIONS TO PIPING:

EL-G-1&1/2X90	1&1/2" X 90 GALV. ELBOW	1
HOSEBARB-S-1&1/2	1&1/2" BARB X MNPT	1

OUTLET HOSE:

HOSE-1&1/4-OUTLET	1&1/4" OUTLET HOSE - 8 FOOT	1
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KITS:

SPEC-8700.44CK	DIAPHRAGM REPAIR KIT	1
	UD02-0102.01, DIAPHRAGM BOLT	QTY 6
	UD02-0301.07, DIAPHRAGM WASHER	QTY 6
	UD02-0903.61 DIAPHRAGM	QTY 6
	UD02-1101.01, O-RING	QTY 12
	UD02-1101.42, O-RING DISCHARGE BARB	QTY 1
	UD02-1101.93, O-RING INLET BARB	QTY 2
	UD02-6006.77, VALVE ASSEMBLY	QTY 12
UD02-6062.28	DIAPHRAGM BOLT & WASHER	1
	UD02-0102.01, DIAPHRAGM BOLT	QTY 6
	UD02-0301.07, DIAPHRAGM WASHER	QTY 6
UD02-6062.D3	INLET/OUTLET VALVE KIT	1
	UD02-1101.01, O-RING	QTY 12
	UD02-6006.77, VALVE ASSEMBLT	QTY 12
UD02-6062.H4	DIAPHRAGM KIT	1
	UD02-0903.61, DIAPHRAGM	QTY 6
	UD02-1101.01, O-RING	QTY 12