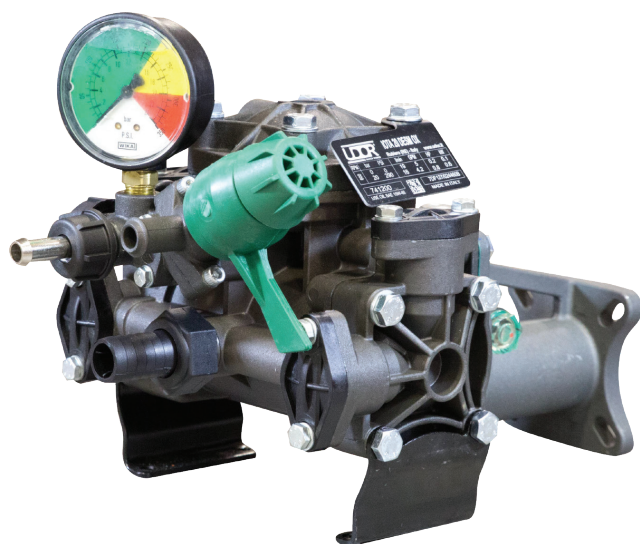




IOTA 18, IOTA 20 & IOTA 25 low pressure, two diaphragm pumps are internally manifolded, with anodized aluminum and stainless steel construction. All models include pulsation dampener.

The IOTA 18 M includes a 1 HP, 115 volt electric motor and base plate.

The IOTA 20 GR & IOTA 25 GR include gear reductions for 3/4" shaft gasoline engines.

IOTA 18, IOTA 20 & IOTA 25 pumps are excellent for various lawn care, horticultural, agricultural, nursery, pest control and turf spraying applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
IOTA 20	5.0	19.0	300	20	600	14 mm Tapered Shaft	9 LBS
IOTA 20 GR3/4	5.0	19.0	300	20	600	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	12 LBS
IOTA 25	7.0	24.0	300	20	600	25 mm Solid Keyed Shaft	10 LBS
IOTA 25 GR3/4	7.0	24.0	300	20	600	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	12 LBS
IOTA 18 M	4.8	18.0	200	20	600	115-Volt 1 HP Motor. Max 10 Amp	33 LBS
IOTA 18 E	-	-	-	-	-	Replacement Pump for IOTA-18/M	9 LBS
0908.31	-	-	-	-	-	Replacement Motor for IOTA-18/M	20 LBS

Specifications	IOTA 20	IOTA 25	Description	Part #
Inlet Port	3/4" Hose Barb	3/4" Hose Barb	Diaphragm Kit (GREENTECH)	8700.01
Outlet Ports - Valve	1/2" Hose Barb	1/2" Hose Barb	Diaphragm Bolt & Washer Kit	6062.40
Bypass	5/8" Hose Barb	5/8" Hose Barb	Valve Kit	6062.38
Piston Diameter	44.0mm	44.0mm	Complete Repair Kit	8700.01CK
Crankshaft Stroke/Code	10.0mm / Y	13.0mm / W		
Dimensions	7.5"L x 12.5"W x 8.5"H			

Lubrication: Requires 7 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



8700.01CK	
CODE	QTY
010202	2
030109	2
090369	1
090312	2
110110	4
110152	4
1101A2	1
1101G4	4
600621	4

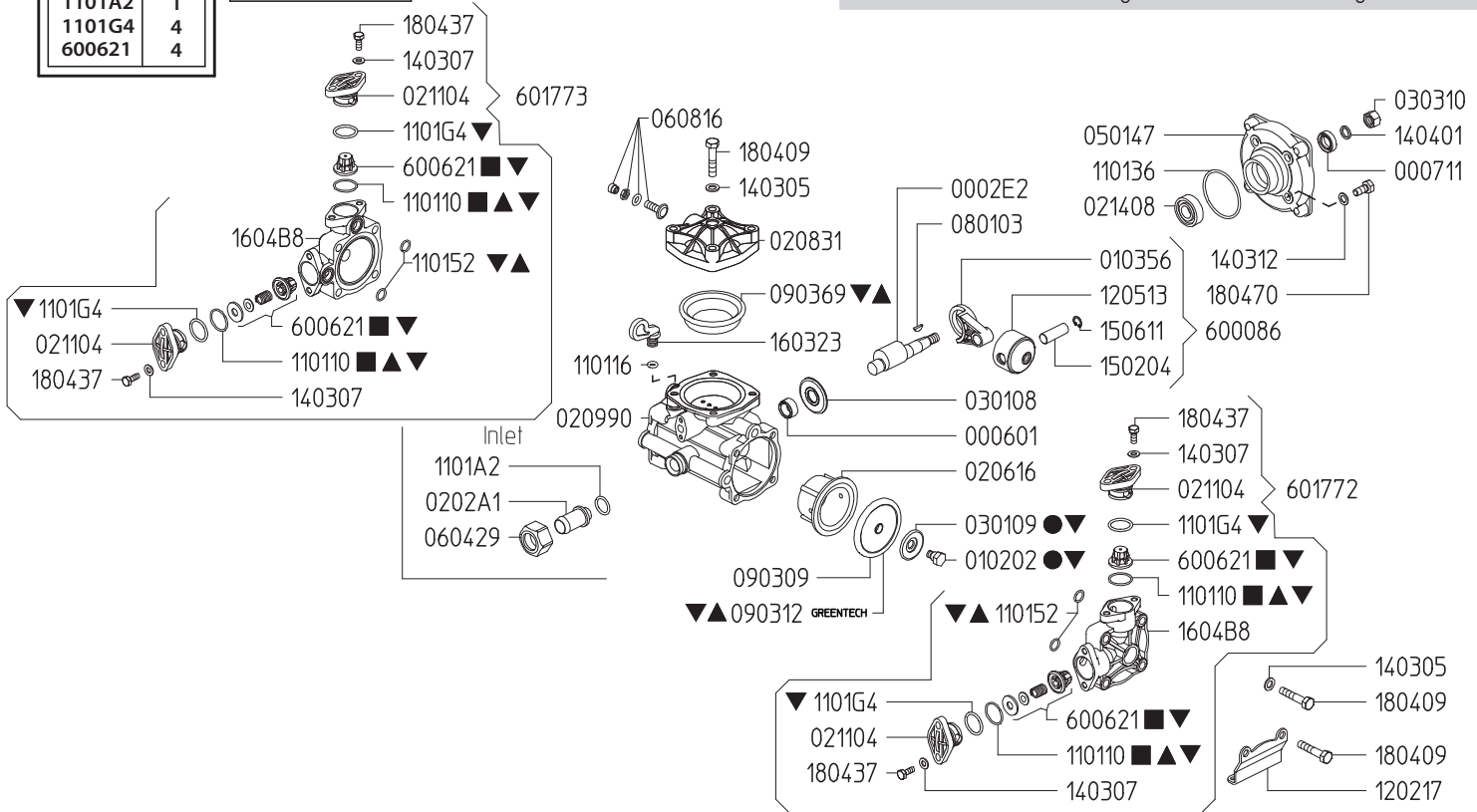
870001	
KIT 629	
CODE	QTY
090369	1
090312	2
110110	4
110152	4

606238	
KIT 537	
CODE	QTY
110110	4
600621	4

606240	
KIT 539	
CODE	QTY
010202	2
030109	2

Maximum Flow	5.0 GPM / 19 lpm
Maximum Pressure	290 PSI / 20 bar
Maximum RPM	600
Inlet Port - Hose Barb	3/4" HB
Outlet Ports - Hose Barb, Valve	3/8" HB
Bypass - Hose Barb	5/8" HB
Dimensions - Pump Only	7.5"L x 12.5"W x 8.5"H
Weight - with GR	12 lbs

Lubrication: Requires 7 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



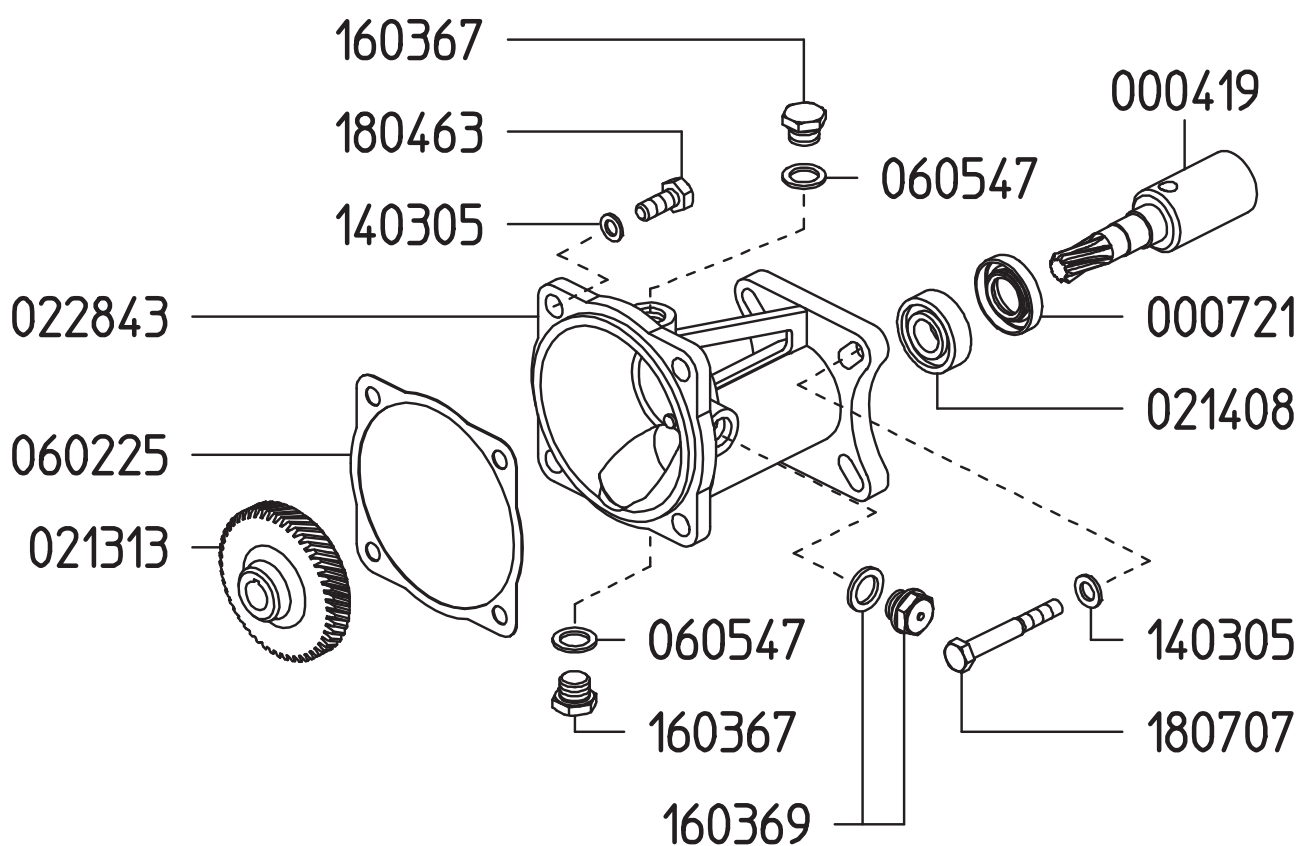
Revised 4-10-2025

Part #	Description	Qty
0002.E2	SHAFT "IOTA 20"	1
0006.01	BUSHING D15	1
0007.11	OIL SEAL D14	1
0102.02	DIAPHRAGM BOLT "IOTA/KAPPA 15" ●▼	2
0103.56	CONNECTING ROD "IOTA 20/25"	2
0202.A1	HOSE BARB D20	1
0206.16	SLEEVE D44 "IOTA 20"	2
0208.31	ACCUMULATOR COVER "IOTA 20/25"	1
0209.90	CRANKCASE "IOTA 20/25"	1
0211.04	COVER "IOTA 20/25"	4
0214.08	BALL BEARING D15	1
0301.08	BEARING DISC "IOTA 20/25"	1
0301.09	DIAPHRAGM DISC "IOTA 20/25" ●▼	2
0303.10	HEX NUT M10X1X10	1
0501.47	BEARING FLANGE "IOTA 20"	1
0604.29	PLASTIC NUT G3/4	1
0608.16	AIR VALVE ASSY	1
0801.03	KEY 3X5 UNI6606 DIN6888	1
0903.69	ACCUMULATOR DIAPHRAGM - GREENTECH ▼▲	1
0903.09	PISTON DIAPHRAGM BUNA-N D70	2
0903.12	PISTON DIAPHRAGM GREENTECH D70 ▲▼	2
1101.10	O-RING - VALVE ▼▲■	4
1101.16	O-RING - OIL PLUG	1
1101.36	O-RING - BEARING FLANGE	1
1101.52	O-RING - HEAD ▲▼	4
1101.A2	O-RING - INLET HOSE BARB ▼	1
1101.G4	O-RING - VALVE COVER ▼	4

Part #	Description	Qty
1202.17	BASE PLATE "IOTA 20/25"	2
1205.13	ALUMINIUM PISTON D44 "IOTA 20/25"	2
1403.05	WASHER M8	8
1403.07	WASHER M6	8
1403.12	GASKET D8,5	4
1404.01	GROWER WASHER D11	1
1502.04	PIN D12X35	2
1506.11	SNAP RING D12	2
1603.23	OIL PLUG W/O O-RING	1
1604.B8	HEAD "IOTA 20/25"	2
1804.09	HEX BOLT M8X40	12
1804.37	HEX BOLT M6X18	8
1804.70	HEX BOLT M8X18	4
6000.86	ROD ASSY "IOTA 20/25" D44	2
6006.21	VALVE ASSY "IOTA 20/25" W/T O-RING ■▼	4
6017.72	RIGHT HEAD ASSY "IOTA 20/25"	1
6017.73	LEFT HEAD ASSY "IOTA 20/25"	1
6062.38	IN/OUTLET VALVE KIT "IOTA" (KIT 537)	1
6062.40	DIAPHRAGM BOLT / WASHER (KIT 539)	1
8700.01	DIAPHRAGM KIT GREENTECH (KIT 629)	1
8700.01CK	COMPLETE REPAIR KIT	1

■ Parts in 6062.38 (Kit 537)
 ● Parts in 6062.40 (Kit 539)
 ▲ Parts in 8700.01 (Kit 629)
 ▼ Parts in 8700.01 (Complete Repair Kit)

**GAS ENGINE GEAR REDUCTION FOR
IOTA 20 DIAPHRAGM PUMPS
on GAS ENGINES with 3/4" SHAFTS**
REQUIRES 3 OZ. 90W GEAR LUBE

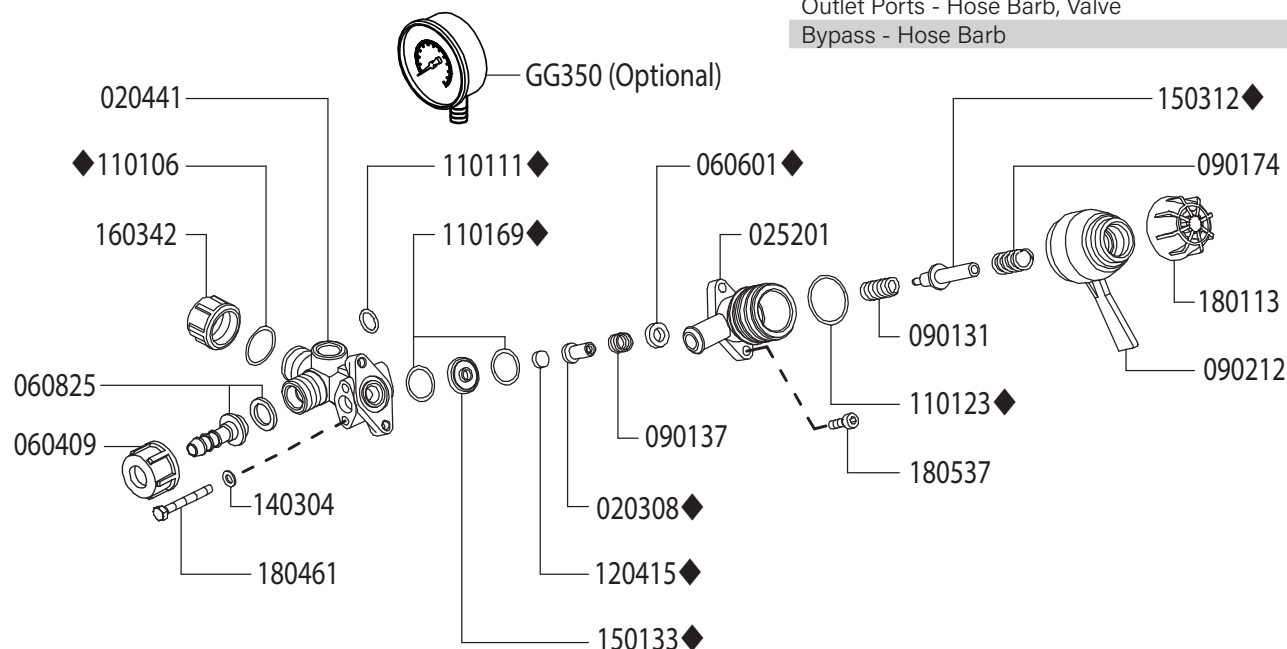


Part #	Description	Qty
0004.19	GEAR SHAFT "S124-3/4"/S151-3/4"	1
0007.21	OIL SEAL D17	1
0213.13	RED.GEAR WHEEL Z=40 "S151"	1
0214.08	BALL BEARING D15	1
0228.43	COUPLER "S151"	1
0602.25	GASKET "IOTA-20"	1

Part #	Description	Qty
0605.47	GASKET D13	2
1403.05	WASHER D8.4	8
1603.67	PLUG G1/4	2
1603.69	OIL PLUG G1/4 + GASKET	1
1804.63	HEX BOLT M8X25	4
1807.07	HEX BOLT 5/16X1" UNF	4

Adjustable Pressure Regulator

Maximum Flow	5.0 GPM / 19 lpm
Maximum Pressure	275 PSI / 19 bar
Inlet Port - Hose Barb	-
Outlet Ports - Hose Barb, Valve	3/8" HB
Bypass - Hose Barb	-



Revised 4-10-2025

Part #	Description	Qty
0203.08	VALVE COLLAR ♦	1
0204.41	VALVE BODY	1
0252.01	BYPASS BODY	1
0604.09	DISCHARGE BARB NUT	1
0606.01	SEAL ♦	1
0608.25	DISCHARGE BARB	1
0901.06	SPRING	1
0901.31	SPRING	1
0901.37	SPRING	1
0901.74	SPRING	1
0902.12	REGULATOR HANDLE	1
1101.06	O-RING ♦	1
1101.11	O-RING ♦	1
1101.23	O-RING ♦	1

Part #	Description	Qty
1101.69	O-RING ♦	2
1204.15	POPPET ♦	1
1403.04	WASHER	2
1501.33	SEAT ♦	1
1503.12	STEM ♦	1
1603.42	CAP	1
1801.13	ADJUSTMENT KNOB	1
1804.61	BOLT	2
1805.37	BOLT	2
GG350	LOW PRESSURE GAUGE (OPTIONAL)	1
8701.01	REPAIR KIT	1

♦ Parts included in repair kit #8701.01

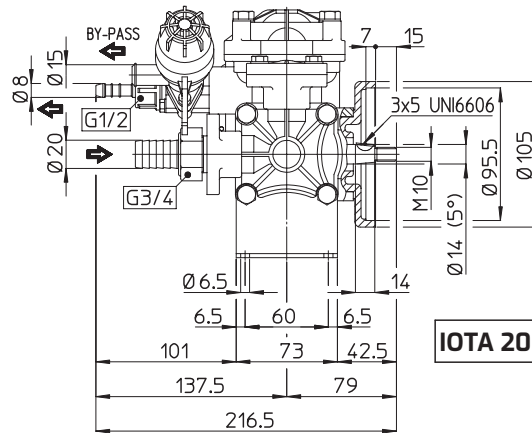
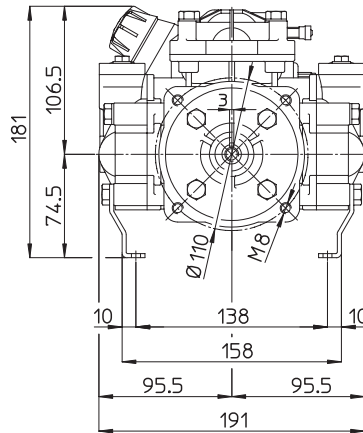
- Before operating or re-operating the pump, push the manual dump valve lever (0902.12) counter-clockwise to the dump position. **FAILURE TO DO SO WILL VOID PUMP WARRANTY.**
- Turn the pressure adjustment knob (1801.13) counter-clockwise to relieve spring tension.
NOTE: Step 2 applies only to initial start-up, and is not necessary in daily operation of pump.
- Start unit and let run until air is evacuated from system, when only liquid is expelled from the bypass line
- Turn dump valve lever clockwise to ON position. Open spray gun or spray boom and turn the pressure adjustment knob clockwise until desired operating pressure is achieved.

IOTA 18/20/25 DIMENSIONS

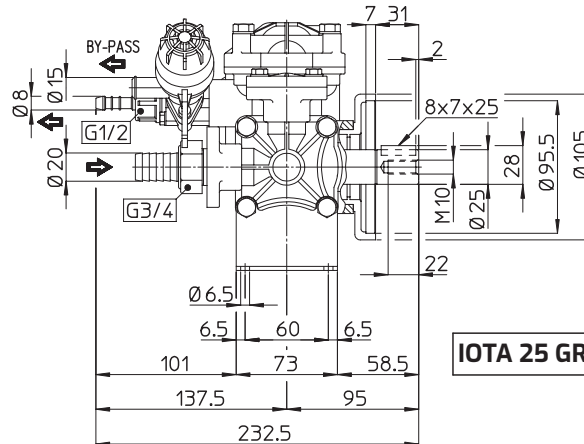
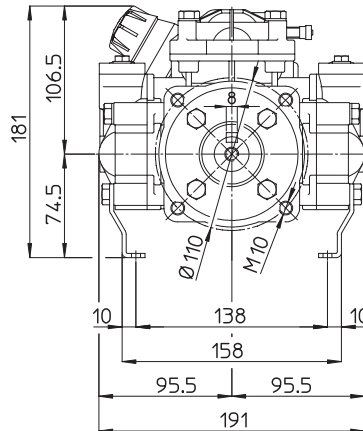
*Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937*

Specifications	IOTA 20	IOTA 25
Inlet Port - Hose Barb	3/4" HB	3/4" HB
Outlet Ports - Hose Barb	1/2" HB	1/2" HB
Bypass - Hose Barb	5/8" HB	5/8" HB
Dimensions	7.5"L x 12.5"W x 8.5"H	
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)	

Lubrication: Requires 7 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.



IOTA 20



IOTA 25 GR

TORQUE SPECS

Ref.	Description	Ft./lb.	Nm
1	Diaphragm Bolts (Use Loctite 243)	10	14
2	Head Bolts	18	25
3	Pulsation Dampener Bolts	18	25
4	Inlet Flange Bolts	-	-
5	Bearing Flange Bolts	18	25
6	Oil Cup Bolts	-	-

