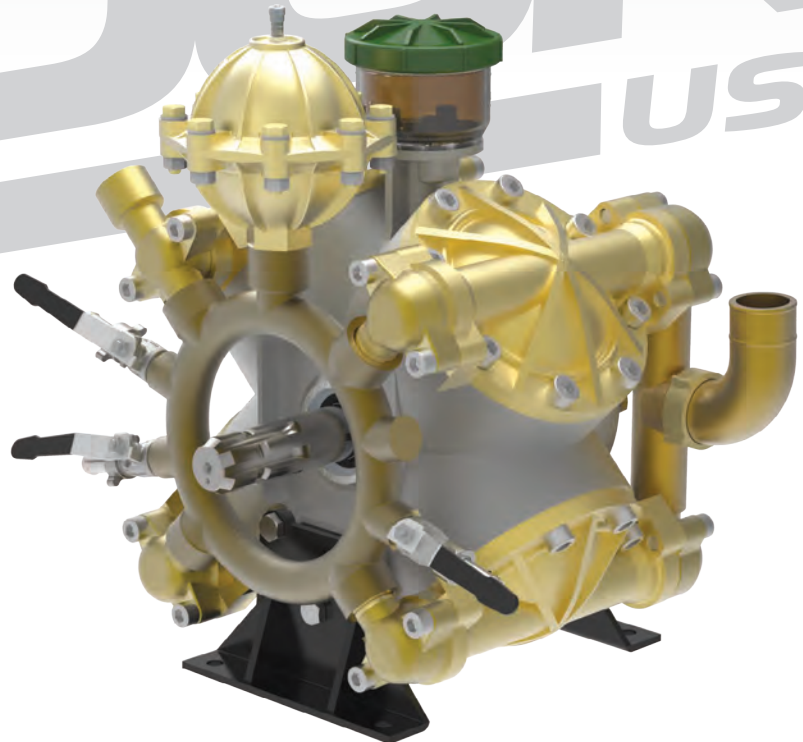
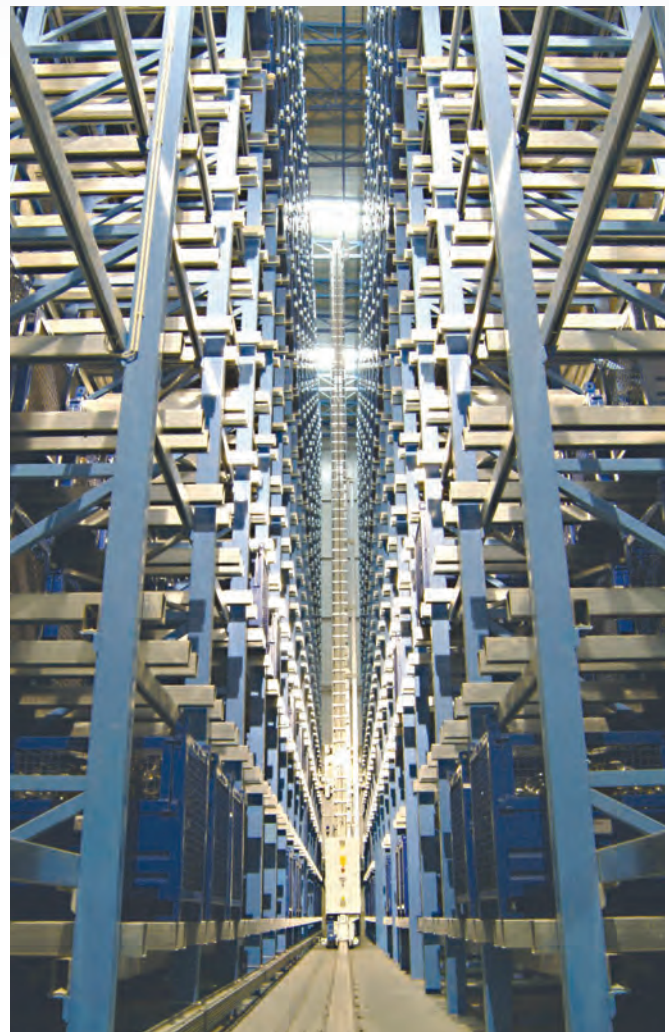


UDOR[®]
USA

World Leader in Diaphragm and Plunger Pumps



Diaphragm Pumps & Accessories
Product Catalog D223A



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Ag Spraying

Lawn Care



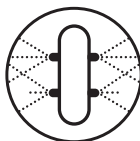
Fire Fighting

Construction



Disinfection

Orchard Spraying



Misting

De-Icing



Pressure Washing

De-Salination



PUMP MODEL IDENTIFICATION



Example:

ZETA

Pump
Series

40

Nominal
Flow Rate
(l/min)

VAGR3/4

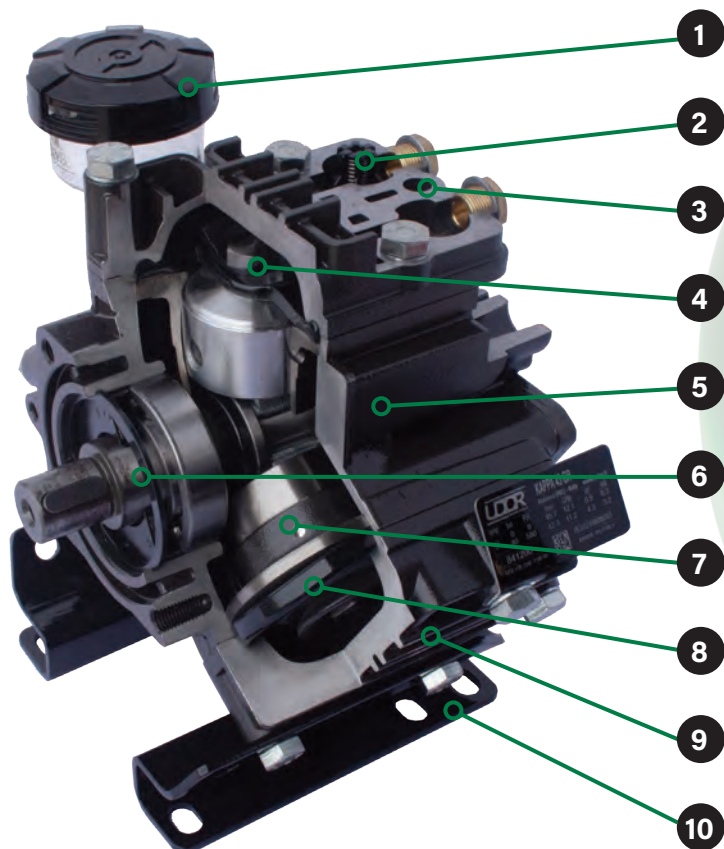
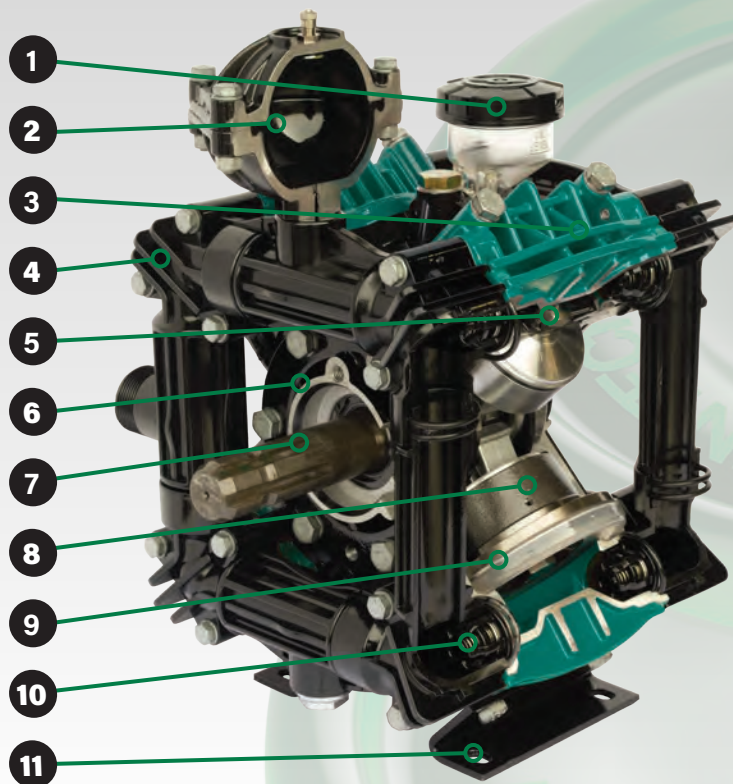
Drive
Configuration
(See Below)

Drive Configurations:

Drive	Description	Example
1C	1-3/8", 6-Spline Male PTO Shaft	
VA	Universal VA Drive Face	
M11	2-Bolt A-Flange with 1" Hollow Shaft for Hydraulic Motor	
GR	25mm Solid Keyed Shaft to Accept Gear Reduction for 3/4" Shaft Gas Engines	
GR3/4	Gear Reduction for 3/4" Shaft Gas Engine Installed	
VAGR3/4	Universal VA Drive Face with Gear Reduction for 3/4" Shaft Gas Engine Installed	
VAGR1	Universal VA Drive Face with Gear Reduction for 1" Shaft Gas Engine Installed	
TS1C	Thru-Shaft. 1-3/8", 6-Spline Male PTO x 25mm Solid Keyed Shaft	
TS2C	Thru-Shaft. 1-3/8", 6-Spline Male PTO x 1-3/8", 6-Spline Male PTO	
TSVA	Thru-Shaft. 1-3/8", 6-Spline Male PTO Shaft x Universal VA Drive Face	
TSFVA	Thru-Shaft. 25mm Solid Keyed Shaft x Universal VA Drive Face with 6-Spline Female PTO Shaft	
TSMFVA	Thru-Shaft. 1-3/8", 6-Spline Male PTO Shaft x Universal VA Drive Face with 6-Spline Female PTO Shaft	
TSMFVAGR1-1/8	Thru-Shaft. 1-3/8", 6-Spline Male PTO Shaft x Universal VA Drive Face with 6-Spline Female PTO Shaft. Gear Reduction for 1-1/8" Shaft Gas Engine Installed	

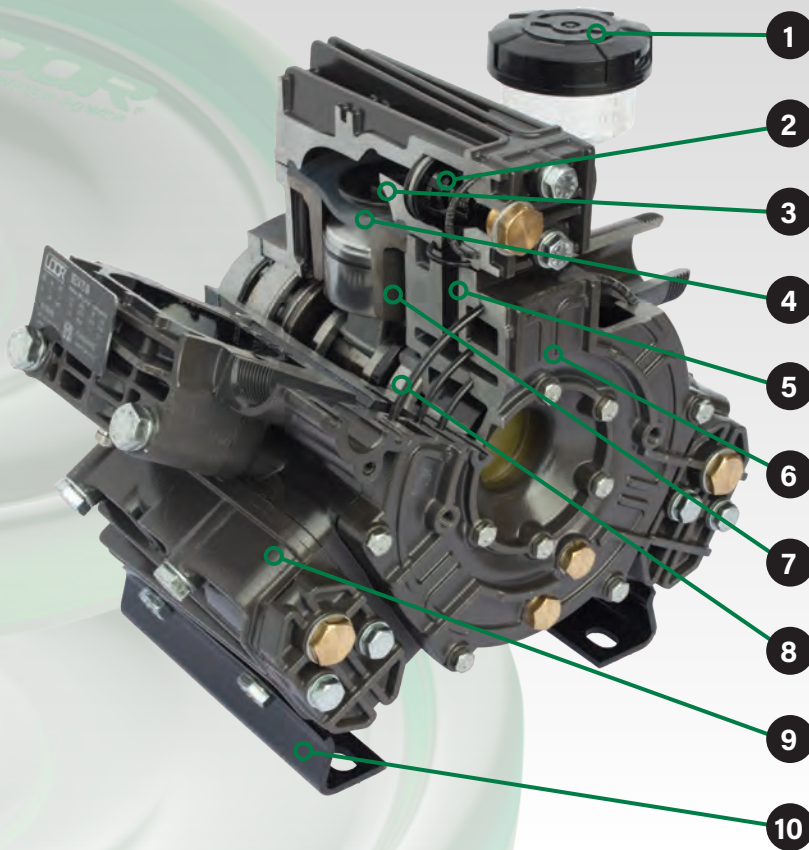
ZETA Series Pumps

- 1 Oil Level Sight Glass / Reservoir
- 2 Pulsation Dampener
- 3 Plasticized Aluminum Heads
- 4 Glass-Filled Nylon Manifolds
- 5 1-Piece Stainless Steel Diaphragm Bolts
- 6 Anodized Die-Cast Aluminum Crankcase
- 7 Heat Treated, Bearing Supported Crankshaft
- 8 Heat Treated, Self-Lubricating Piston Sleeves
- 9 Udor **GREENTECH** Diaphragms
- 10 Stainless Steel Check Valves
- 11 Mounting Rails



KAPPA Series Pumps

- 1 Oil Level Sight Glass / Reservoir
- 2 Stainless Steel Check Valves
- 3 Internally Manifolder Crankcase
- 4 1-Piece Stainless Steel Diaphragm Bolts
- 5 Anodized Die-Cast Aluminum Crankcase
- 6 Heat Treated, Bearing Supported Crankshaft
- 7 Heat Treated, Self-Lubricating Piston Sleeves
- 8 Udor **GREENTECH** Diaphragms
- 9 Anodized Aluminum Heads
- 10 Mounting Rails

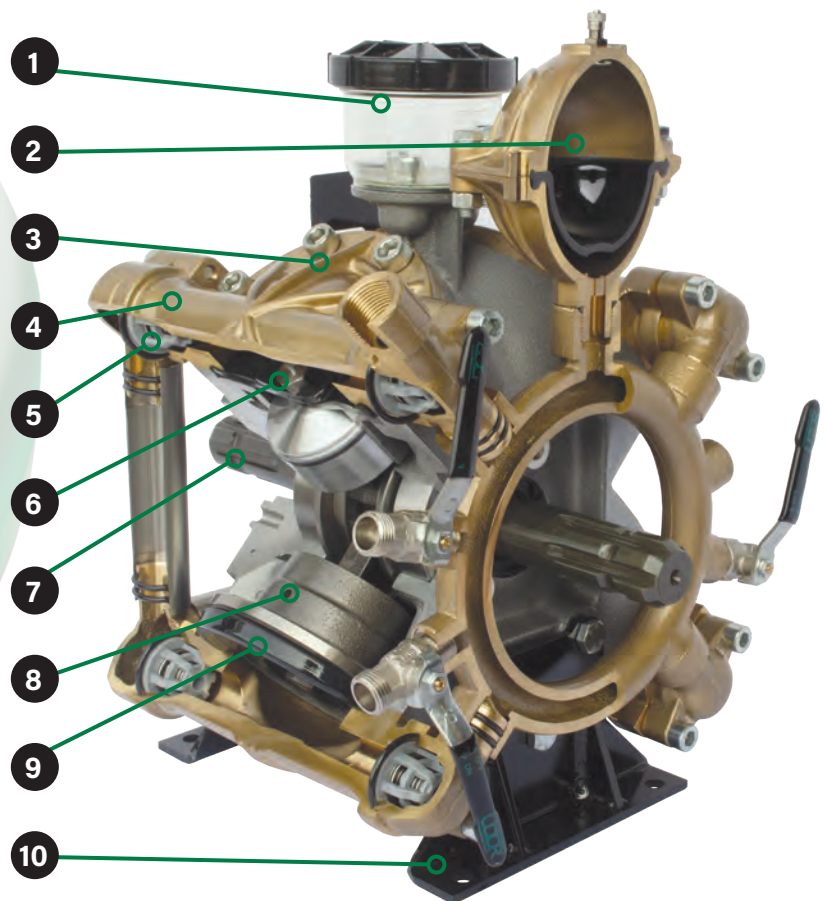


DELTA Series Pumps

- 1 Oil Level Sight Glass / Reservoir
- 2 Stainless Steel Check Valves
- 3 1-Piece Stainless Steel Diaphragm Bolts
- 4 Udor **GREENTECH** Diaphragms
- 5 Internally Manifolded Crankcase
- 6 Anodized Die-Cast Aluminum Crankcase
- 7 Heat Treated, Self-Lubricating Piston Sleeves
- 8 Heat Treated, Bearing Supported Crankshaft
- 9 Anodized Aluminum Heads
- 10 Mounting Rails

BETA Series Pumps

- 1 Oil Level Sight Glass / Reservoir
- 2 Pulsation Dampener
- 3 Brass Heads
- 4 Brass Manifolds
- 5 Stainless Steel Check Valves
- 6 1-Piece Stainless Steel Diaphragm Bolts
- 7 Heat Treated, Bearing Supported Crankshaft
- 8 Heat Treated, Self-Lubricating Piston Sleeves
- 9 Udor **GREENTECH** Diaphragms
- 10 Mounting Rails



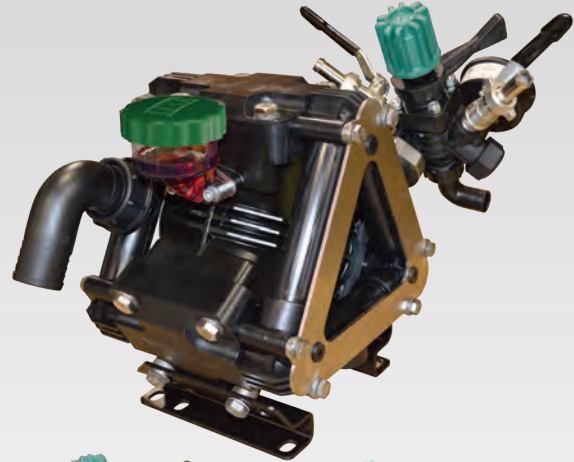


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ZETA 40P & ZETA 85P low pressure 3-cylinder diaphragm pumps have poly heads, externally mounted manifolds and stainless-steel liquid handling parts and hardware components. A control valve with pressure gauge is standard on all models.

ZETA 40P & ZETA 85P pumps are excellent for the soft wash industry and other aggressive fluid applications.



ZETA 40P VA



ZETA 40P VAGR3/4



ZETA 85P VA



ZETA 85P VAGR3/4

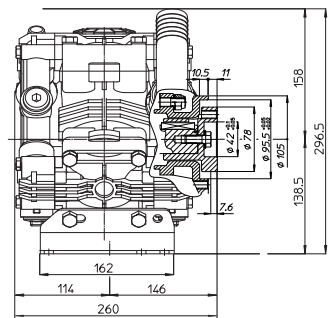
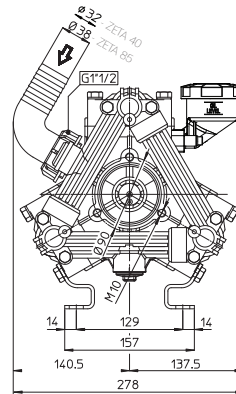
Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 40P VA	10.5	44	300	20	550	Universal VA Drive Face.	29 LBS
ZETA 40P VAGR3/4	10.5	44	300	20	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	36 LBS
ZETA 85P VA	22.0	85	300	20	550	Universal VA Drive Face.	29 LBS
ZETA 85P VAGR3/4	22.0	85	300	20	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	36 LBS

Specifications	ZETA 40P	ZETA 85P
Inlet Port	1-1/4" Hose Barb	1-1/2" Hose Barb
Outlet Ports - Valve	(2) 1/2" Hose Barb	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb	3/4" Hose Barb
Dims. - Pump Only		11"L x 11"W x 12"H
- GR Version		16"L x 11"W x 12"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit - GREENTECH	6062.97
Diaphragm Bolt & Washer Kit	6062.48
Valve Kit	6062.H1
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.63CK



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

Recommended Accessories and Drive Options



6010.96

Control Unit
Regulator w/Gauge



5027.75

Gear Reduction
3/4" Shaft Gas Engines



7751.A3

1" Solid Keyed
Shaft and Bolts



UD1-1/4-16

1-1/4" HI-Flow Filter
16 Mesh Screen



UD1-1/2-16

1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil

ZETA 40 / ZETA 85

UDOR
USA



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ZETA 40 & ZETA 85 low pressure 3-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds. A control valve with pressure gauge is standard on all models.

ZETA 40 & ZETA 85 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 40



ZETA 40 VAGR3/4

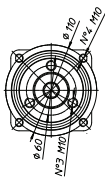
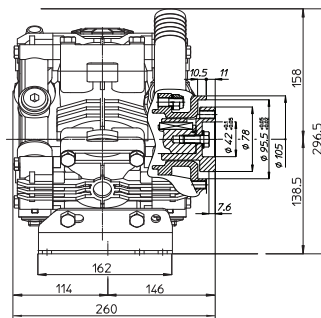
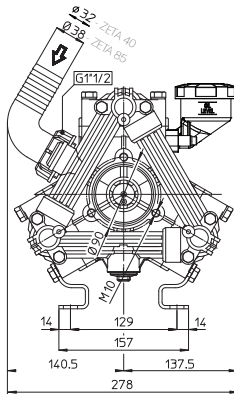


ZETA 85 VA



ZETA 85 VAGR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 40 VA	10.5	44	300	20	550	Universal VA Drive Face.	29 LBS
ZETA 40 VAGR3/4	10.5	44	300	20	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	36 LBS
ZETA 85 VA	22.0	85	300	20	550	Universal VA Drive Face.	29 LBS
ZETA 85 VAGR3/4	22.0	85	300	20	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	36 LBS



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

Specifications	ZETA 40	ZETA 85
Inlet Port	1-1/4" Hose Barb	1-1/2" Hose Barb
Outlet Ports - Valve	(2) 1/2" Hose Barb	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb	3/4" Hose Barb
Dims. - Pump Only		11"L x 11"W x 12"H
- GR Version		16"L x 11"W x 12"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #	List Price
Diaphragm Kit - GREENTECH	6062.97	\$ 152.10
Diaphragm Bolt & Washer Kit	6062.48	\$ 82.70
Valve Kit	6062.D8	\$ 226.20
Regulator Repair Kit	6062.A9	\$ 66.44
Complete Repair Kit	8700.60CK	\$ 490.07

Recommended Accessories and Drive Options



6010.95
Control Unit
Regulator w/Gauge



5027.75
Gear Reduction
3/4" Shaft Gas Engines



7751.A3
1" Solid Keyed
Shaft and Bolts



UD1-1/4-16
1-1/4" HI-Flow Filter
16 Mesh Screen



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil



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ZETA 70 low pressure 3-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds.

ZETA 70 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 70 1C



ZETA 70 TS1C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 70 1C	19.0	71	300	20	550	1-3/8" 6-Spline Male PTO Shaft	21 LBS
ZETA 70 TS1C	19.0	71	300	20	550	1-3/8" 6-Spline Male PTO x 25mm Solid Keyed Thru-Shaft	21 LBS

Specifications

ZETA 70

Inlet Port: 1-1/4" Hose Barb

Outlet Port: 3/4" Hose Barb

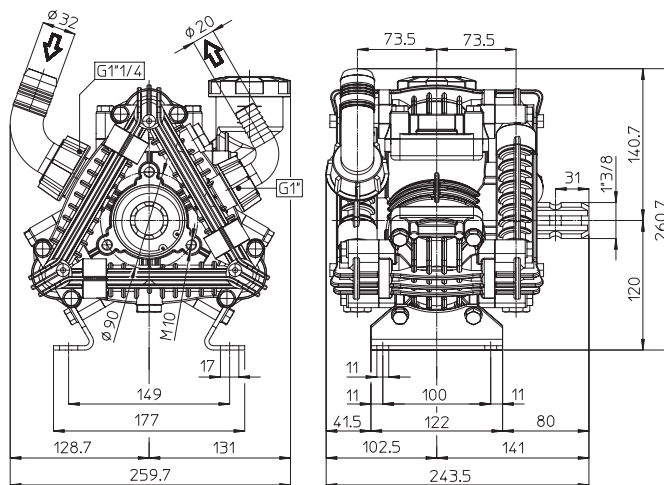
Dimensions: 10.5"L x 10"W x 9"H

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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit - GREENTECH	6062.B8
Diaphragm Bolt & Washer Kit	6062.48
Valve Kit	6062.D8
Complete Repair Kit	8700.62CK



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

Recommended Accessories and Drive Options



6005.31/LP
Control Unit
Regulator



6005.31/LP-N
Control Unit
Regulator - NPT



6066.05
PTO Drive
Safety Shield



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil



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ZETA 100 low pressure 3-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds. A pulsation dampener standard on all models.

ZETA 100 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 100 1C



ZETA 100 VA

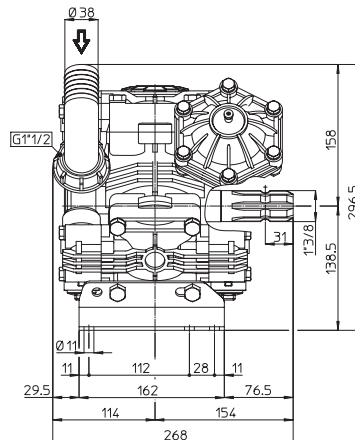
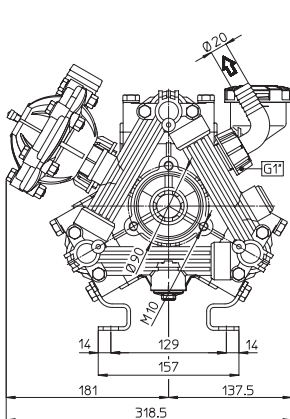


ZETA 100 TS1C



ZETA 100 MI1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 100 1C	26.0	98	300	20	550	1-3/8" 6-Spline Male PTO Shaft	30 LBS
ZETA 100 VA	26.0	98	300	20	550	Universal VA Drive Face.	30 LBS
ZETA 100 TS1C	26.0	98	300	20	550	1-3/8" 6-Spline Male PTO x 25mm Solid Keyed Thru-Shaft	30 LBS
ZETA 100 MI1	26.0	98	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	30 LBS



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

Specifications

ZETA 100

Inlet Port	1-1/2" Hose Barb
Outlet Port	3/4" Hose Barb
Dimensions	13"L x 11"W x 12"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.	

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.10
Diaphragm Bolt & Washer Kit	6062.48
Valve Kit	6062.D8
Complete Repair Kit	8700.61CK

Recommended Accessories and Drive Options



6005.31/LP
Control Unit
Regulator



6005.31/LP-N
Control Unit
Regulator - NPT



6066.05
PTO Drive
Safety Shield



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil



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ZETA 120 & ZETA 140 low pressure 3-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds.

ZETA 120 & ZETA 140 pumps are excellent for various horticultural and agricultural spraying applications.



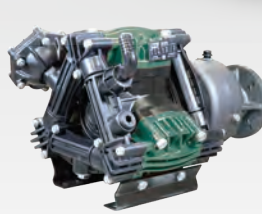
ZETA 120 VA



ZETA 120 1C / ZETA 140 1C



ZETA 120 VAGR3/4



ZETA 120 VAGR1



ZETA 120 TS1C / ZETA 140 TS1C

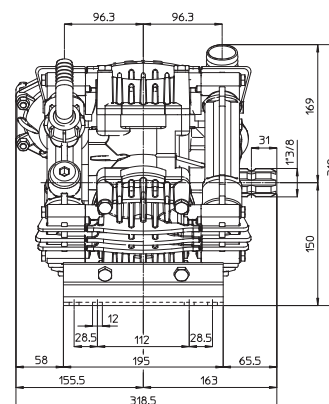
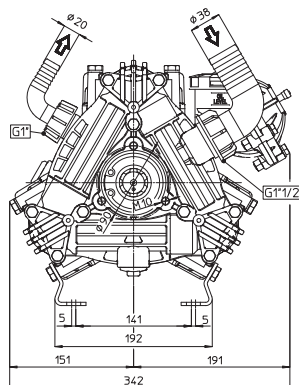


Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 120 VA	31.0	116	300	20	550	Universal VA Drive Face.	45 LBS
ZETA 120 1C	31.0	116	300	20	550	1-3/8" 6-Spline Male PTO Shaft	45 LBS
ZETA 120 TS1C	31.0	116	300	20	550	1-3/8" 6-Spline Male PTO x 25mm Solid Keyed Thru-Shaft	45 LBS
ZETA 120 VAGR3/4	31.0	116	200	13.8	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	55 LBS
ZETA 120 VAGR1	31.0	116	300	20	550	Gear Reduction for 1" Shaft Gas Engine, 8-20 HP	55 LBS
ZETA 140 1C	36.0	135	300	20	550	1-3/8" 6-Spline Male PTO Shaft	45 LBS
ZETA 140 TS1C	36.0	135	300	20	550	1-3/8" 6-Spline Male PTO x 25mm Solid Keyed Thru-Shaft	45 LBS

Specifications	ZETA 120	ZETA 140
Inlet Port	1-1/2" Hose Barb	1-1/2" Hose Barb
Outlet Port	3/4" Hose Barb	3/4" Hose Barb
Dimensions	12.5"L x 13.5"W x 12.5"H	
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)	
Lubrication: Requires 40 oz. of Udor Lube 40W Premium Pump Oil. Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.		

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit - GREENTECH	6062.H2
Diaphragm Bolt & Washer Kit	6062.16
Valve Kit	6062.D7
Complete Repair Kit	8700.04CK



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

Recommended Accessories and Drive Options



6005.31/LP-N
Control Unit
Regulator



5033.A4
Gear Reduction
1" Shaft Gas Engines



5027.75
Gear Reduction
3/4" Shaft Gas Engines



7751.A3
1" Solid Keyed
Shaft and Bolts



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil



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ZETA 170 low pressure 4-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds. A pulsation dampener standard on all models.

ZETA 170 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 170 1C

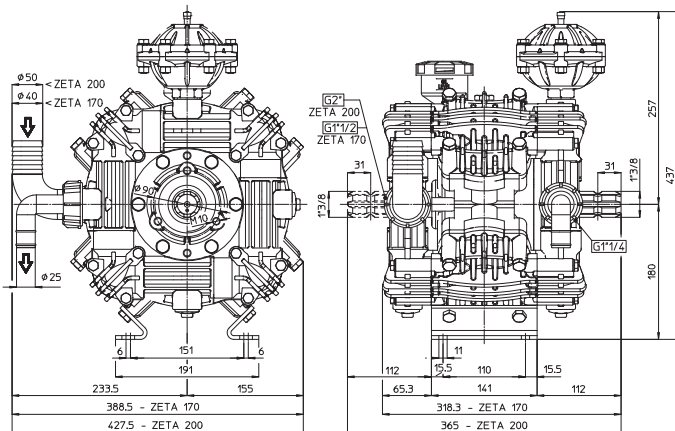


ZETA 170 TS2C



ZETA-170 MI1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 170 1C	45.0	170	300	20	550	1-3/8" 6-Spline Male PTO Shaft	58 LBS
ZETA 170 TS2C	45.0	170	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	58 LBS
ZETA 170 MI1	45.0	170	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	58 LBS



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

Specifications

ZETA 170

Inlet Port	1-1/2" Hose Barb
Outlet Port	1" Hose Barb
Dimensions	15.5"L x 12.5"W x 17.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)
Lubrication: Requires 44 oz. of Udor Lube 40W Premium Pump Oil. Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.	

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.H3
Diaphragm Bolt/Washer Kit	6062.24
Valve Kit	6062.D5
Complete Repair Kit	8700.09CK

Recommended Accessories and Drive Options



OMP-100
HD Hydraulic Motor
2-Bolt A-Flange Mount



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



VRG-400
Pressure
Regulator



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



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Udor Lube
Premium Pump Oil



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ZETA 200 low pressure 4-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds. A pulsation dampener standard on all models.

ZETA 200 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 200 TS2C



ZETA 200 MI1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 200 TS2C	53.0	198	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	58 LBS
ZETA 200 MI1	53.0	198	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	58 LBS

Specifications

ZETA 200

Inlet Port 2" Hose Barb

Outlet Port 1" Hose Barb

Dimensions - Pump Only 15.5"L x 12.5"W x 17.5"H

Diaphragm Material GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 44 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description

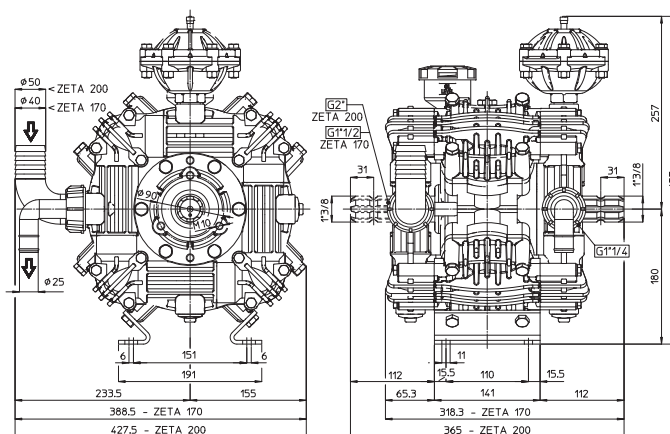
Part

Diaphragm Kit (GREENTECH) 6062.H3

Diaphragm Bolt/Washer Kit 6062.D6

Valve Kit 6062.D5

Complete Repair Kit 8700.41CK



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

Recommended Accessories and Drive Options



OMP-100
HD Hydraulic Motor
2-Bolt A-Flange Mount



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



VRG-400
Pressure
Regulator



15.5823
Udor Lube
Premium Pump Oil

ZETA 230 / ZETA 260



Scan this QR Code
for more information



ZETA 230 & 260 low pressure 6-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds.

ZETA 230 & 260 pumps are excellent for various horticultural and agricultural spraying applications.

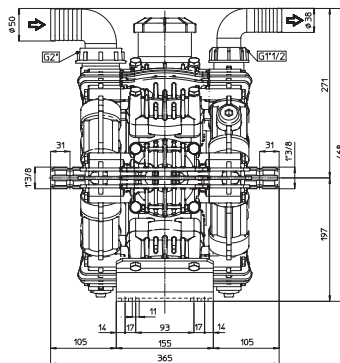
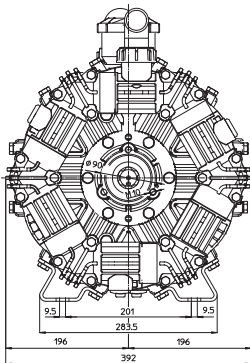


ZETA 230 TS2C / ZETA 260 TS2C



ZETA 260 MI1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 230 TS2C	61.0	228.0	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	80 LBS
ZETA 260 TS2C	68.0	256.0	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	80 LBS
ZETA 260 MI1	68.0	256.0	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	80 LBS



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

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

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

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.H4
Diaphragm Bolt & Washer Kit	6062.28
Valve Kit	6062.D3
Complete Repair Kit	8700.44CK

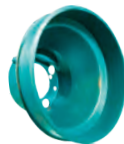
Recommended Accessories and Drive Options



OMP-100
HD Hydraulic Motor
2-Bolt A-Flange Mount



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



VRG-400
Pressure
Regulator



15.5823
Udor Lube
Premium Pump Oil



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ZETA 300 low pressure 6-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds.

ZETA 300 pumps are excellent for various horticultural and agricultural spraying applications.



ZETA 300 TS2C



ZETA 300 MI1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 300 TS2C	78.0	295.0	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	80 LBS
ZETA 300 MI1	78.0	295.0	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	80 LBS

Specifications

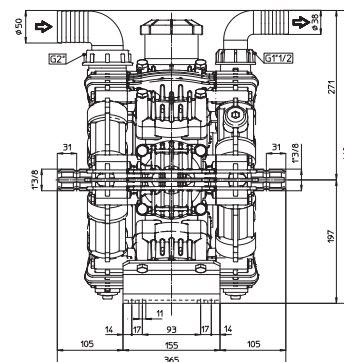
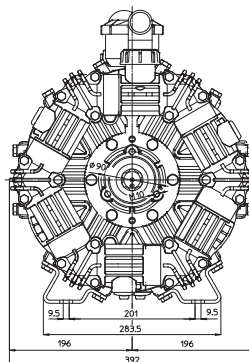
ZETA 300

Inlet Port	2" Hose Barb
Outlet Port	1-1/2" Hose Barb
Dimensions	14.5"L x 15.5"W x 18.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

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

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.H4
Diaphragm Bolt & Washer Kit	6062.D4
Valve Kit	6062.D3
Complete Repair Kit	8700.42CK



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

Recommended Accessories and Drive Options



OMP-100
HD Hydraulic Motor
2-Bolt A-Flange Mount



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



VRG-400
Pressure
Regulator



15.5823
Udor Lube
Premium Pump Oil

ZETA 350 / ZETA 400

UDOR
USA



ZETA 350 TS2C / ZETA 400 TS2C



ZETA 350 MI1



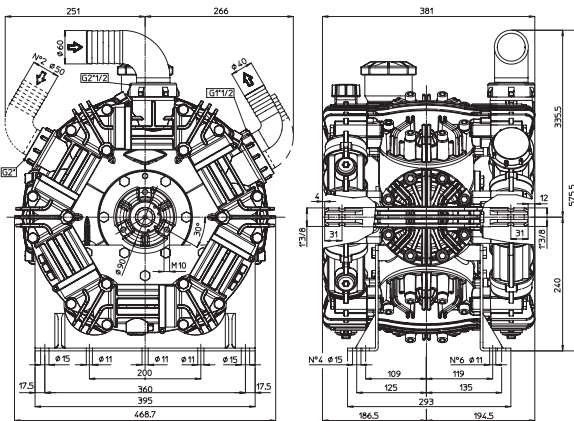
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ZETA 350 & 400 low pressure 6-cylinder diaphragm pumps have anodized aluminum bodies with plasticized aluminum heads, stainless steel valves and glass-filled nylon manifolds.

ZETA 350 & 400 pumps are excellent for various horticultural and agricultural spraying applications.

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
ZETA 350 TS2C	92.0	345.0	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	155 LBS
ZETA 350 MI1	92.0	345.0	300	20	550	2-Bolt, A-Flange, 1" Hollow Shaft for Hydraulic Motor	155 LBS
ZETA 400 TS2C	106.0	400.0	300	20	550	1-3/8" 6-Spline Male PTO Thru-Shaft	155 LBS



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

Specifications	ZETA 350	ZETA 400
Inlet Port	2" & 2-1/2" Hose Barb	2" & 2-1/2" Hose Barb
Outlet Port	(2)1-1/2" Hose Barb	(2)1-1/2" Hose Barb
Dimensions	20.5" L x 14.5" W x 23" H	
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)	

Lubrication: Requires 155 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.G1
Diaphragm Bolt & Washer Kit	6062.G2
Valve Kit	6062.F9
Complete Repair Kit	8700.43CK

Recommended Accessories and Drive Options

GREENTECH



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



VRG-400
Pressure
Regulator



15.5823
Udor Lube
Premium Pump Oil



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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.



IOTA 20 / IOTA 25



IOTA 20 GR3/4 / IOTA 25 GR3/4



IOTA 18 M

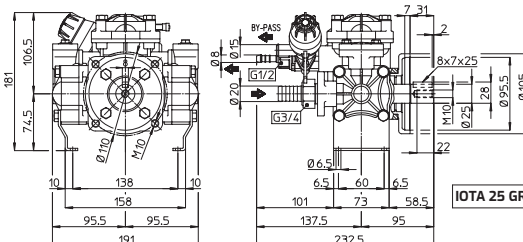
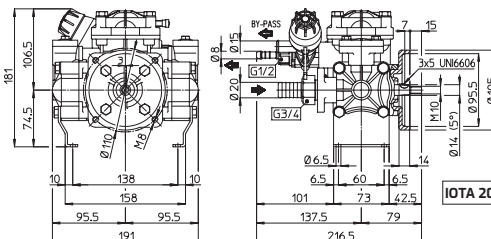
Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
IOTA 20	5.0	19.0	300	20	600	14 mm Tapered Shaft	9 LBS
IOTA 20 GR3/4	5.0	19.0	300	20	600	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	12 LBS
IOTA 25	7.0	24.0	300	20	600	25 mm Solid Keyed Shaft	10 LBS
IOTA 25 GR3/4	7.0	24.0	300	20	600	Gear Reduction 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
Inlet Port	3/4" Hose Barb	3/4" Hose Barb
Outlet Ports	1/2" Hose Barb	1/2" Hose Barb
Bypass	5/8" Hose Barb	5/8" Hose Barb
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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.01
Diaphragm Bolt & Washer Kit	6062.40
Valve Kit	6062.38
Regulator Repair Kit	8701.01
Complete Repair Kit	8700.01CK



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

Recommended Accessories and Drive Options



5094.76

Gear Reduction/IOTA-20
3/4" Shaft Gas Engine



5085.F7

Gear Reduction/IOTA-25
3/4" Shaft Gas Engine



6010.23

Control Unit
Regulator



15.5823

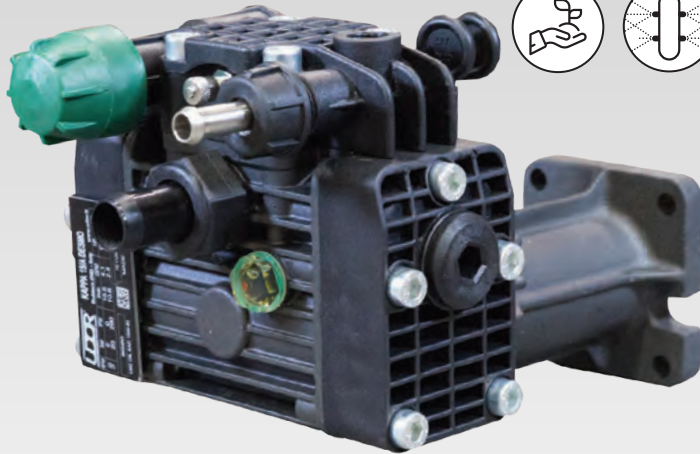
Udor Lube
Premium Pump Oil

GREENTECH



KAPPA 7 / KAPPA 15 / KAPPA 18

UDOR
USA



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The **KAPPA 7DC, 15DC & 18DC** are internally manifolded, two diaphragm pumps with pulsation dampener, Anodized aluminum and glass-filled nylon construction. Additional pressure regulator required.

KAPPA 15 GR3/4 pumps include pulsation dampener, adjustable pressure regulator and gearbox for gas engines with 3/4" shaft

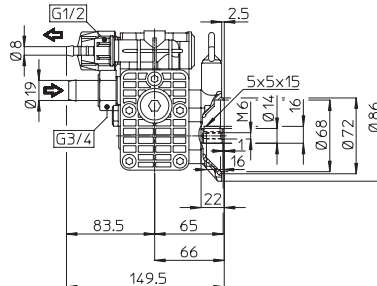
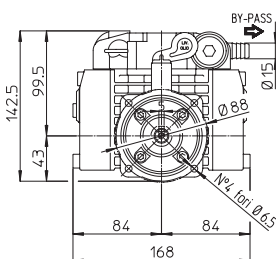


KAPPA 7 DC, KAPPA 15 DC, KAPPA 18 DC



KAPPA 15 GR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
KAPPA 7 DC	2.0	7.6	275	20	1450	Replacement Pump for KAPPA 7 12-Volt	14 LBS
KAPPA 15 DC	3.5	13.3	275	20	1450	Replacement Pump for KAPPA 15 12-Volt	14 LBS
KAPPA 18 DC	4.2	16.0	275	20	1450	Replacement Pump for KAPPA 18 12-Volt	14 LBS
KAPPA 15 GR3/4	3.5	13.3	275	20	1450	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	17 LBS



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

Specifications	KAPPA 7	KAPPA 15	KAPPA 18
Inlet Port	3/4" Hose Barb		
Outlet Ports	3/8" Hose Barb		
Bypass	5/8" Hose Barb		
Dimensions	7"L x 7.5"W x 6.5"H		
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)		

Lubrication: Requires 4 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.27
Diaphragm Bolt & Washer Kit	6062.04
Valve Kit	6062.02
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.27CK

Recommended Accessories and Drive Options



UD1/4-150
Control Unit
Regulator



5047.D7
Gear Reduction
3/4" Shaft Gas Engine



0016.04
Venturi Agitator
1/2" MNPT Inlet



163.604.4
163.604.6
3/8" & 1/2" HB Elbow



UD1-16
1" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil



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PUMP/MOTOR ASSEMBLIES



KAPPA 7 115-Volt



KAPPA 7 12-Volt
KAPPA 15 12-Volt
KAPPA 18 12-Volt



KAPPA 15 12-Volt HP
KAPPA 18 12-Volt HP

Model	GPM	l/min	PSI	bar	Amps	Drive Configuration	Weight
KAPPA 7 115 Volt	2.0	7.6	200	15.0	10	115-Volt TEFC Motor with On/Off	25 LBS
KAPPA 7 12 Volt	2.0	7.6	200	15.0	25	12-Volt DC Electric Motor	22 LBS
KAPPA 15 12 Volt	3.5	13.3	90	6.0	25	12-Volt DC Electric Motor	22 LBS
KAPPA 15 12 Volt HP	3.5	13.3	200	15.0	35	HD 12-Volt DC Electric Motor	35 LBS
KAPPA 18 12 Volt	4.2	16.0	70	5.0	28	12-Volt DC Electric Motor	22 LBS
KAPPA 18 12 Volt HP	4.2	16.0	150	10.0	35	HD 12-Volt DC Electric Motor	35 LBS
0908.42	-	-	-	-	-	Replacement Motor for KAPPA-7,15,18/12-Volt	
0908.50	-	-	-	-	-	Replacement Motor for KAPPA-15,18/12-Volt-HP	

Specifications	KAPPA 7	KAPPA 15	KAPPA 18
Inlet Port			3/4" Hose Barb
Outlet Ports			3/8" Hose Barb
Bypass			5/8" Hose Barb
Dimensions - Pump Only			7"L x 7.5"W x 6.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)		

Lubrication: Requires 4 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.27
Diaphragm Bolt & Washer Kit	6062.04
Valve Kit	6062.02
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.27CK

Recommended Accessories and Drive Options



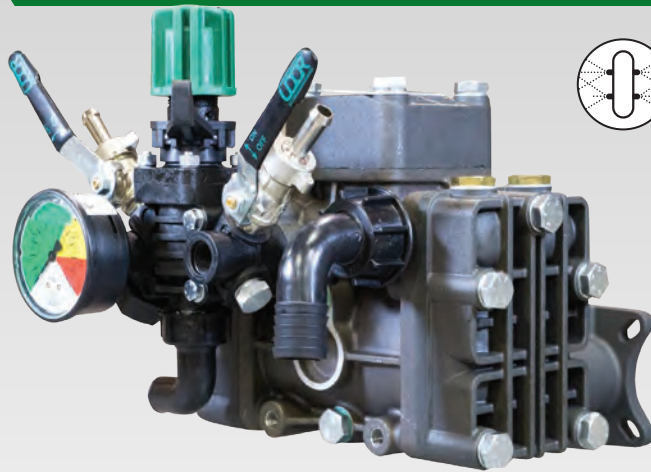
UD1-16
1" HI-Flow Filter
16 Mesh Screen



UD1/4-150
Control Unit
Regulator



15.5823
Udor Lube
Premium Pump Oil



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KAPPA 25 2-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

KAPPA 25 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.

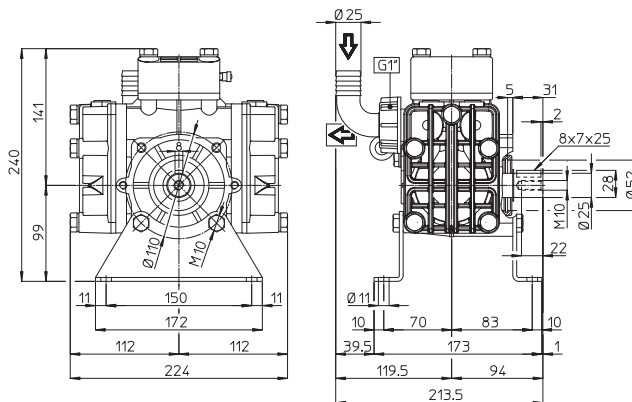


KAPPA 25



KAPPA 25 GR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
KAPPA 25	7.0	26.5	350	24	550	25 mm Solid Keyed Shaft. Mounting Rails	18 LBS
KAPPA 25 GR3/4	7.0	26.5	350	24	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	28 LBS



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

Specifications	KAPPA-25
Inlet Port	1" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions	8.5"L x 9.0"W x 9.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 12 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.C1
Diaphragm Bolt/Washer Kit	6062.B4
Valve Kit	6062.42
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.65CK

Recommended Accessories and Drive Options



6010.95
Control Unit
Regulator w/Gauge



5085.F7
Gear Reduction
3/4" Shaft Gas Engine



0016.04
Venturi Agitator
1/2" MNPT Inlet



163.604.4
163.604.6
3/8" & 1/2" HB Elbow



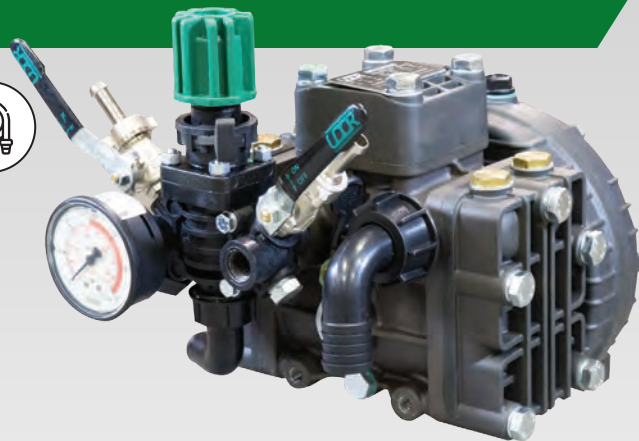
UD1-16
1" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil



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KAPPA 32 2-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

KAPPA 32 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



KAPPA 32



KAPPA 32 GR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
KAPPA 32	9.5	36.0	560	38	550	25 mm Solid Keyed Shaft. Mounting Rails	18 LBS
KAPPA 32 GR3/4	9.5	36.0	560	38	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	28 LBS

Specifications

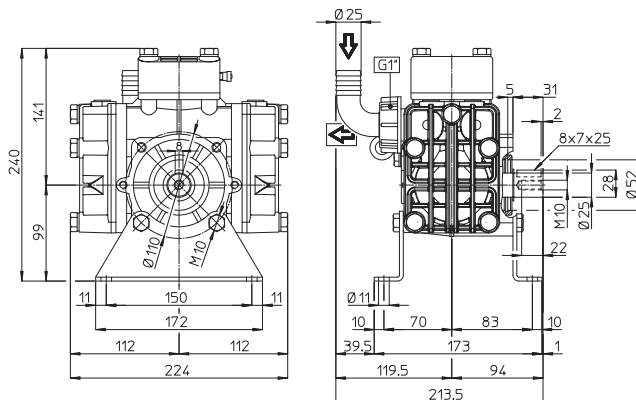
KAPPA 32

Inlet Port	1" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions	8.5"L x 9.0"W x 9.5"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.C1
Diaphragm Bolt/Washer Kit	6062.B4
Valve Kit	6062.42
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.65CK



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

Recommended Accessories and Drive Options



6010.93
Control Unit
Regulator w/Gauge



5071.75
Gear Reduction
3/4" Shaft Gas Engine



0016.04
Venturi Agitator
1/2" MNPT Inlet



163.604.4
163.604.6
3/8" & 1/2" HB Elbow



UD1-16
1" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil



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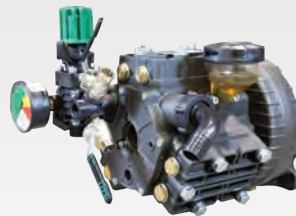


KAPPA 43 3-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

KAPPA 43 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



KAPPA 43

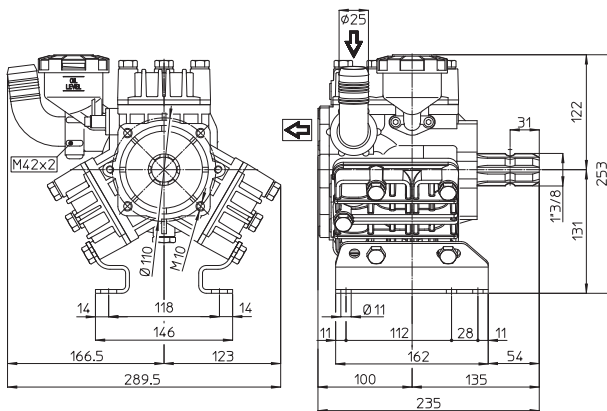


KAPPA 43 GR3/4LP



KAPPA 43 GR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
KAPPA 43	10.5	40.0	560	38	550	25 mm Solid Keyed Shaft. Mounting Rails	29 LBS
KAPPA 43 GR3/4LP	10.5	40.0	350	24	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	39 LBS
KAPPA 43 GR3/4	10.5	40.0	560	38	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	39 LBS



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

Specifications

KAPA 43

Inlet Port	1" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions - Pump Only	9.5"L x 11.5"W x 10.0"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.45
Diaphragm Bolt/Washer Kit	6062.48
Valve Kit	6062.46
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.45CK

Recommended Accessories and Drive Options



6010.93 / 6010.95
Control Unit
Regulator w/Gauge



5071.75
Gear Reduction
3/4" Shaft Gas Engine



0016.04
Venturi Agitator
1/2" MNPT Inlet



163.604.4
163.604.6
3/8" & 1/2" HB Elbow



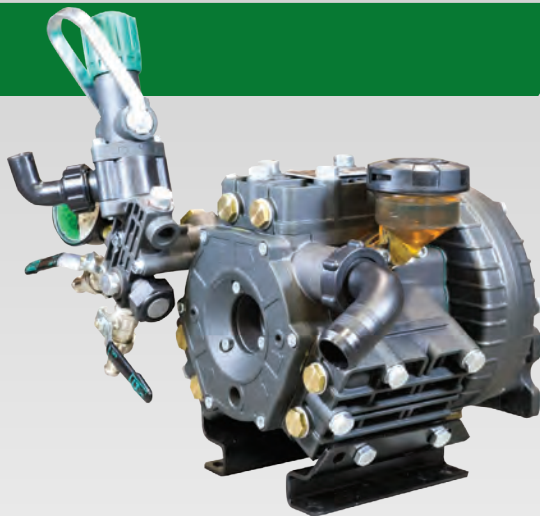
UD1-16
1" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil



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KAPPA 55 3-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

KAPPA 55 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



KAPPA 55 VA



KAPPA 55 VAGR3/4



KAPPA 55 VAGR1



KAPPA 55 TSFVA

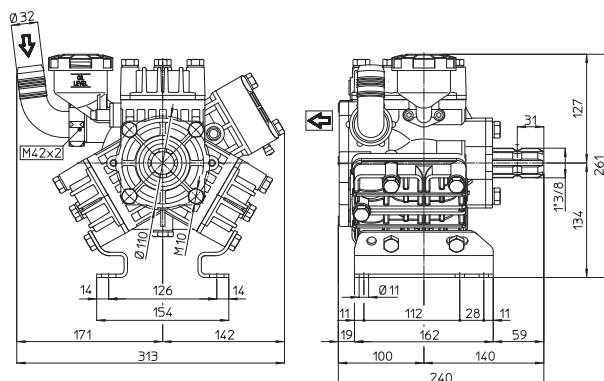
Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
KAPPA 55 VA	15.0	570	560	38	550	Universal VA Drive Face. Mounting Rails	37 LBS
KAPPA 55 VAGR3/4	15.0	570	350	24	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	47 LBS
KAPPA 55 VAGR1	15.0	570	560	38	550	Gear Reduction for 1" Shaft Gas Engine, 8-20 HP	47 LBS
KAPPA 55 TSFVA	15.0	570	560	38	550	Universal VA Drive Face x 25 mm Solid Keyed Shaft	37 LBS

Specifications	KAPPA 55
Inlet Port	1-1/4" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions	9.5"L x 12.5"W x 10.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 23 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.26
Diaphragm Bolt/Washer Kit	6062.48
Valve Kit	6062.46
Regulator Repair Kit	6062.55
Complete Repair Kit	8700.26CK



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

Recommended Accessories and Drive Options



5033.A4
Gear Reduction
1" Shaft Gas Engine



5027.75
Gear Reduction
3/4" Shaft Gas Engine



6010.24
Control Unit
Regulator - 560 PSI



7753.A6
1-1/8" Male PTO
Shaft and Bolts



7751.A3
1" Solid Keyed
Shaft and Bolts



15.5823
Udor Lube
Premium Pump Oil



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DELTA 40 2-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

DELTA 40 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



DELTA 40

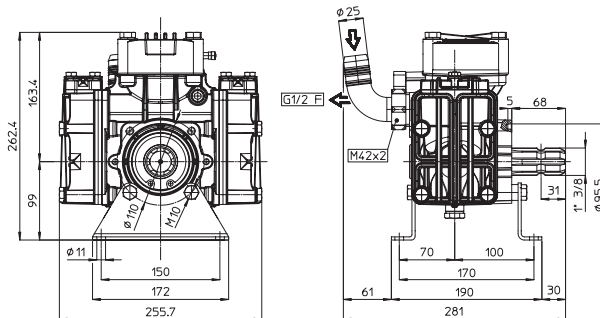


DELTA 40 TSFVA



DELTA 40 GR3/4

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 40	10.5	40.0	560	40	550	25 mm Solid Keyed Shaft. Mounting Rails	29 LBS
DELTA 40 TSFVA	10.5	40.0	560	40	550	25 mm Solid Keyed Shaft x Universal VA Drive Face. Mounting Rails	29 LBS
DELTA 40 GR3/4	10.5	40.0	560	40	550	Gear Reduction for 3/4" Shaft Gas Engine, 4-6.5 HP	39 LBS



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

Specifications

DELTA 40

Inlet Port	1" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions	10.5"L x 11.5"W x 10.5"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.G4
Diaphragm Bolt / Washer Kit	6062.B4
Valve Kit	6062.G3
Regulator Repair Kit	6062.A9
Complete Repair Kit	8700.85CK

Recommended Accessories and Drive Options



6010.24
Control Unit
Regulator w/Gauge



5071.75
Gear Reduction
3/4" Shaft Gas Engine



0016.04
Venturi Agitator
1/2" MNPT Inlet



163.604.4
163.604.6
3/8" & 1/2" HB Elbow



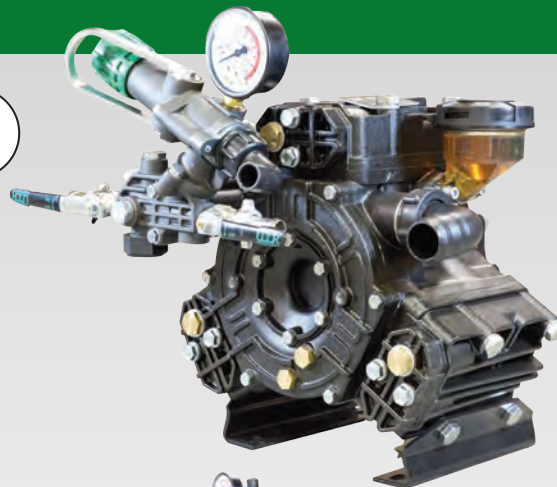
UD1-16
1" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil



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DELTA 75 3-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

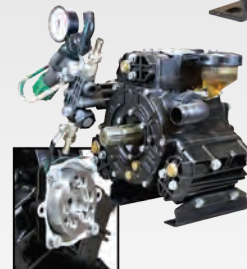
DELTA 75 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



DELTA 75 VA



DELTA 75 VAGR1



DELTA 75 TSVA

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 75 VA	20.0	79.0	560	38	550	Universal VA Drive Face. Mounting Rails	46 LBS
DELTA 75 VAGR1	20.0	79.0	560	38	550	Gear Reduction for 1" Shaft Gas Engine, 8-20 HP	58 LBS
DELTA 75 TSVA	20.0	79.0	560	38	550	Universal VA Drive Face x 1-3/8" 6-Spline Male PTO	46 LBS

Specifications

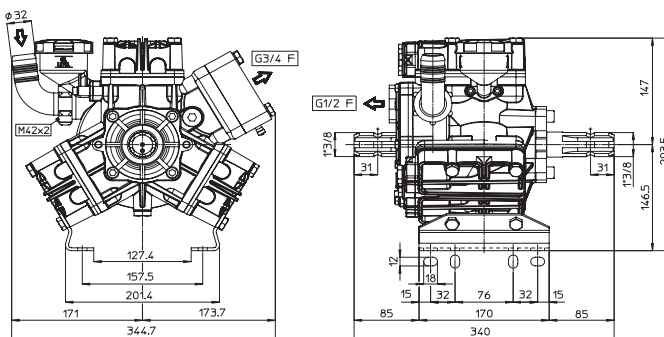
DELTA 75

Inlet Port	1-1/4" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	3/4" Hose Barb
Dimensions	13.5"L x 14.0"W x 12.0"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 23 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.E4
Diaphragm Bolt / Washer Kit	6062.48
Valve Kit	6062.E6
Regulator Repair Kit	6062.53
Complete Repair Kit	8700.75CK



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

Recommended Accessories and Drive Options



6047.06
Control Unit
Regulator - 560 PSI



5033.A4
Gear Reduction
1" Shaft Gas Engine



7751.A3
1" Solid Keyed
Shaft and Bolts



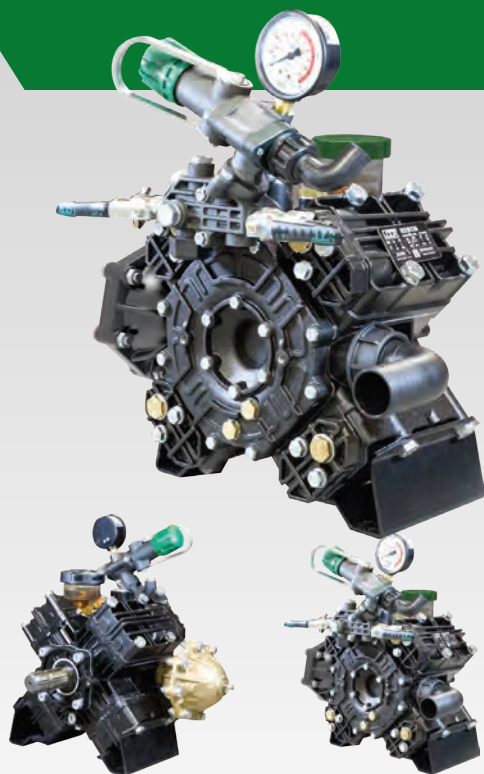
7753.A6
1-1/8" Male PTO
Shaft and Bolts



6066.05
PTO Drive
Safety Shield



15.5823
Udor Lube
Premium Pump Oil



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DELTA 100 4-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts. Includes mounting rails and 6047.06 control unit with pressure gauge.

DELTA 100 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



DELTA 100 1C



DELTA 100 VA



DELTA 100 VAGR1

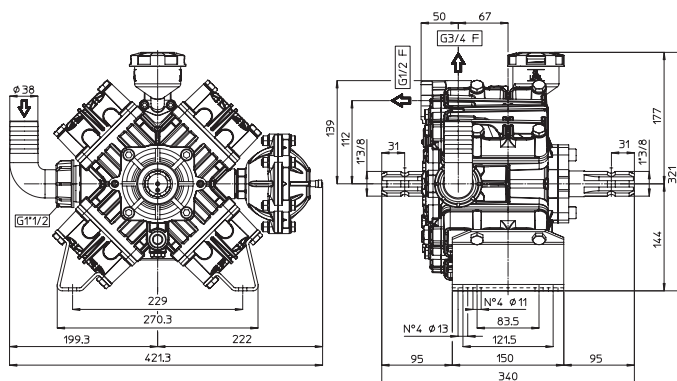


DELTA 100 TS2C



DELTA 100 TSVA

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 100 1C	26.0	104.0	560	40	550	1-3/8" 6-Spline Male PTO Shaft	51 LBS
DELTA 100 VA	26.0	104.0	560	40	550	Universal VA Drive Face. Mounting Rails	51 LBS
DELTA 100 VAGR1	26.0	104.0	560	40	550	Gear Reduction for 1" Shaft Gas Engine, 8-20 HP	51 LBS
DELTA 100 TS2C	26.0	104.0	560	40	550	1-3/8" 6-Spline Male PTO Thru-Shaft	72 LBS
DELTA 100 TSVA	26.0	104.0	560	40	550	Universal VA Drive Face x 1-3/8" 6-Spline Male PTO	51 LBS



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

Specifications

DELTA 100

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 3/4" Hose Barb,
Bypass	1" Hose Barb
Dimensions	13.5"L x 17.0"W x 13.0"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

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

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.80
Diaphragm Bolt / Washer Kit	6062.12
Valve Kit	6062.E5
Regulator Repair Kit	6062.53
Complete Repair Kit	8700.80CK

Recommended Accessories and Drive Options



6047.06
Control Unit
Regulator - 560 PSI



5034.B5
Gear Reduction
1" Shaft Gas Engine



6066.05
PTO Drive
Safety Shield



7751.A3
1" Solid Keyed
Shaft and Bolts



7753.A6
1-1/8" Male PTO
Shaft and Bolts



15.5823
Udor Lube
Premium Pump Oil



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DELTA 125 5-cylinder, medium pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts.

DELTA 125 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



DELTA 125 VA



DELTA 125 TSVA



DELTA 125 TS2C



DELTA 125 VAGR1

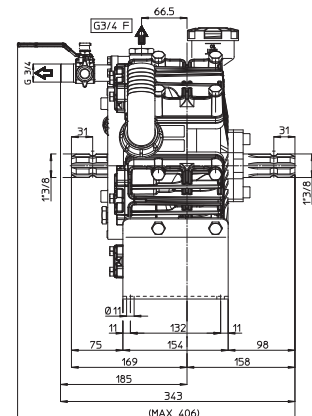
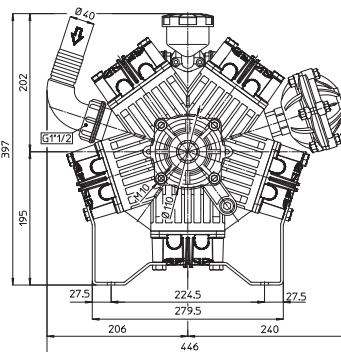
Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 125 VA	34.0	126.0	560	40	550	Universal VA Drive Face. Mounting Rails	65 LBS
DELTA 125 TSVA	34.0	126.0	560	40	550	Universal VA Drive Face x 1-3/8" 6-Spline Male PTO	65 LBS
DELTA 125 TS2C	34.0	126.0	560	40	550	1-3/8" 6-Spline Male PTO Thru-Shaft	65 LBS
DELTA 125 VAGR1	34.0	126.0	560	40	550	Gear Reduction for Gas Engines with 1" Shaft, 8-20 HP	85 LBS

Specifications	DELTA 125
Inlet Port	1-1/4" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb, 3/4" MBSP
Bypass	3/4" Hose Barb
Dimensions	14.0"L x 18.0"W x 16.0"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 69 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.F7
Diaphragm Bolt / Washer Kit	6062.87
Valve Kit	6062.F8
Regulator Repair Kit	6062.53
Complete Repair Kit	8700.82CK



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

Recommended Accessories and Drive Options



6005.05
Control Unit
Regulator



5034.B5
Gear Reduction
1" Shaft Gas Engine



7751.A3
1" Solid Keyed
Shaft and Bolts



7753.A6
1-1/8" Male PTO
Shaft and Bolts



6066.05
PTO Drive
Safety Shield



15.5823
Udor Lube
Premium Pump Oil

DELTA 140

UDOR
USA



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DELTA 140 3-cylinder, high pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge.

DELTA 140 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.

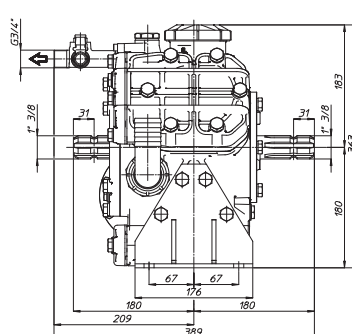
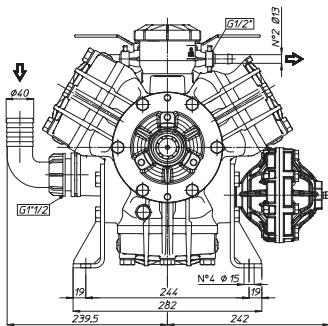


DELTA 140 TS2C

DELTA 140 TSMFVA

DELTA 140 GR1

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 140 TS2C	36.4	138.0	725	49	550	1-3/8" 6-Spline Male PTO Thru-Shaft	95 LBS
DELTA 140 TSMFVA	36.4	138.0	725	49	550	1-3/8" 6-Spline Male PTO x Universal VA Face	95 LBS
DELTA 140 GR1	36.4	138.0	725	49	550	Gear Reduction for Gas Engines with 1" Shaft, 8-20 HP	115 LBS



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

Specifications

DELTA 140

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	1" Hose Barb
Dimensions	19.0"L x 15.5"W x 14.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

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

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.H5
Diaphragm Bolt / Washer Kit	6062.16
Valve Kit	6062.H6
Regulator Repair Kit	6062.53
Complete Repair Kit	8700.83CK

Recommended Accessories and Drive Options



6005.05
Control Unit
Regulator



5034.B5
Gear Reduction
1" Shaft Gas Engine



6066.09
Shaft Protector
and Mounting Bolts



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



7753.A6
1-1/8" Male PTO
Shaft and Bolts



15.5823
Udor Lube
Premium Pump Oil



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DELTA 170 4-cylinder, high pressure diaphragm pumps are internally manifolded with anodized aluminum construction and anodized aluminum and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge.

DELTA 170 pumps are excellent choices for various horticultural, agricultural, lawn care, nursery, pest control and turf spraying applications. They are also effectively used for aircraft de-icing, hydrostatic testing and cleaning applications.



DELTA 170 TS2C



DELTA 170 TSMFVA



DELTA 170 GR1-1/8

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
DELTA 170 TS2C	47.3	179.5	725	49	550	1-3/8" 6-Spline Male PTO Thru-Shaft	110 LBS
DELTA 170 TSMFVA	47.3	179.5	725	49	550	1-3/8" 6-Spline PTO x Universal VA Drive Face	110 LBS
DELTA 170 GR1-1/8	47.3	179.5	725	49	550	Gear Reduction for 1-1/8" Shaft Gas Engines, 24-31 HP	130 LBS

Specifications

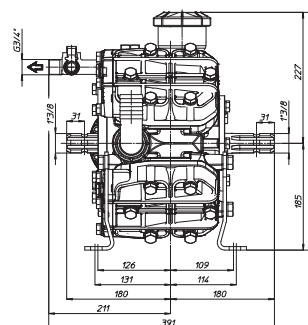
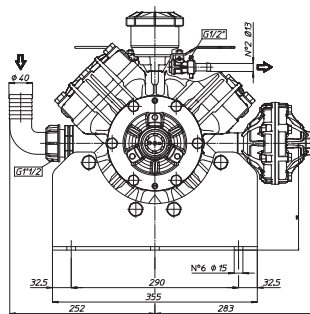
DELTA-170

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb
Bypass	1" Hose Barb
Dimensions	15.5"L x 21.5"W x 16.5"H
Diaphragm Material	GREENTECH (Std) Buna-N (Opt)

Lubrication: Requires 67 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.H7
Diaphragm Bolt / Washer Kit	6062.24
Valve Kit	6062.H8
Complete Repair Kit	8700.84CK



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

Recommended Accessories and Drive Options



6005.05
Control Unit
Regulator



5096.B5
Gear Reduction
1-1/8" Shaft Gas Engine



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



7753.A6
1-1/8" Male PTO
Shaft and Bolts



6066.09
Shaft Protector
and Mounting Bolts



15.5823
Udor Lube
Premium Pump Oil

OMEGA 140



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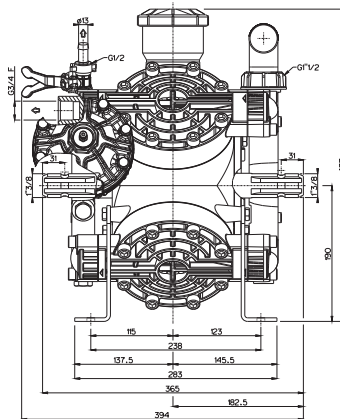
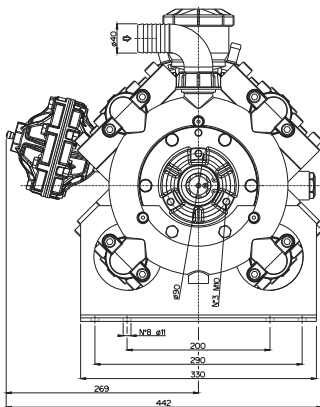


OMEGA 140 3-cylinder, high pressure, high volume diaphragm pumps are constructed of anodized aluminum, brass and stainless steel and have anodized aluminum, brass and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

OMEGA 140 pumps are excellent choices for various horticultural and agricultural spraying applications.

OMEGA 140 TS2C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
OMEGA 140 TS2C	39.0	140	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	100 LBS



OMEGA 140 TS2C cad. 8449300

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

Specifications

OMEGA 140

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 3/4" Hose Barb
Bypass	1" Hose Barb
Dimensions	17.5"L x 14.9"W x 16.0"H
Diaphragm Material	GREENTECH (Standard)

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

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.07
Diaphragm Bolt / Washer Kit	6062.36
Valve Kit	6062.E1
Complete Repair Kit	8700.07CK

Recommended Accessories and Drive Options



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



6005.05
Control Unit
Regulator



0016.04
Venturi Agitator
1/2" MNPT Inlet



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil

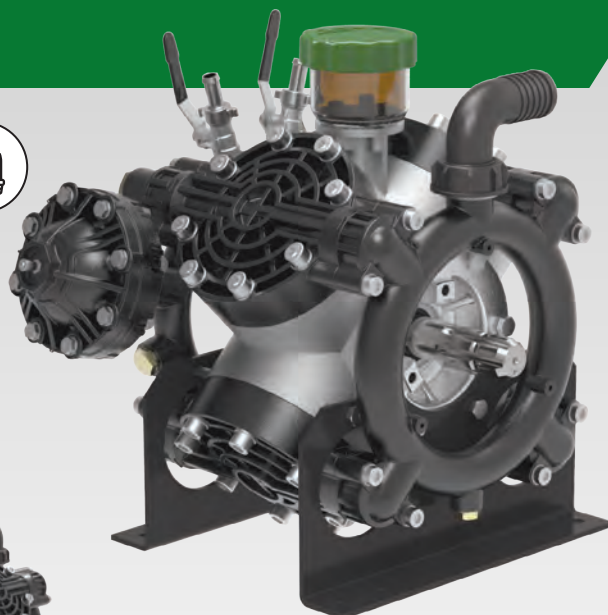


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OMEGA 170 4-cylinder, high pressure, high volume diaphragm pumps are constructed of anodized aluminum, brass and stainless steel and have anodized aluminum, brass and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

OMEGA 170 pumps are excellent choices for various horticultural and agricultural spraying applications.



OMEGA 170 TS2C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
OMEGA 170 TS2C	46.0	174.5	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	120 LBS

Specifications

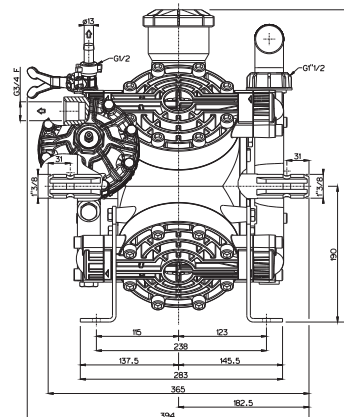
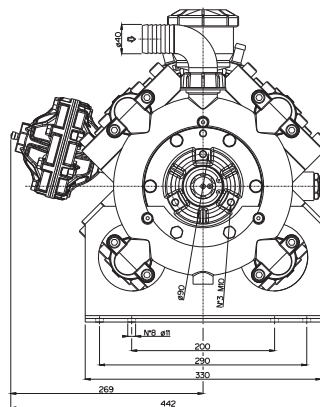
BETA-S 135

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 3/4" Hose Barb
Bypass	1" Hose Barb
Dimensions	17.4"L x 15.5"W x 17.2"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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.07
Diaphragm Bolt / Washer Kit	6062.36
Valve Kit	6062.E1
Complete Repair Kit	8700.07CK



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

Recommended Accessories and Drive Options



6066.09

Shaft Protector
and Mounting Bolts



6066.05

PTO Drive
Safety Shield



6005.05

Control Unit
Regulator



0016.04

Venturi Agitator
1/2" MNPT Inlet



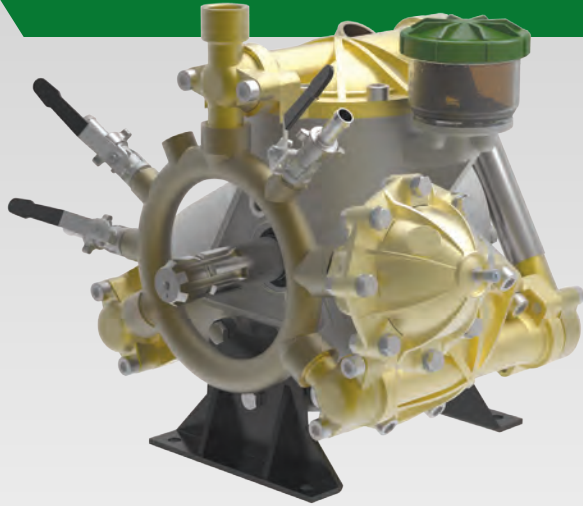
UD1-1/2-16

1-1/2" HI-Flow Filter
16 Mesh Screen



15.5823

Udor Lube
Premium Pump Oil

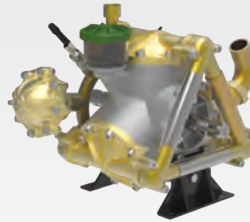


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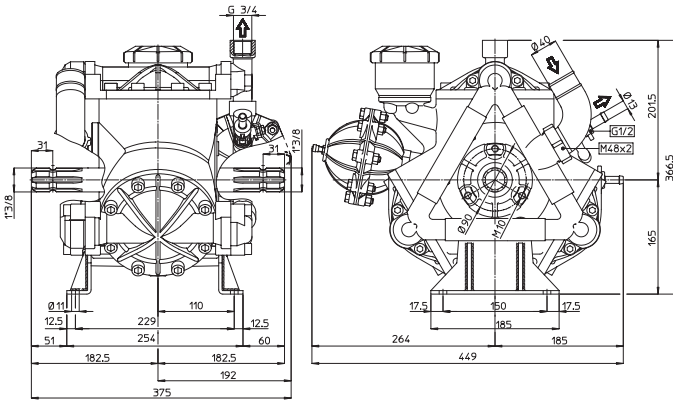
BETA 130 3-cylinder, high pressure, high volume diaphragm pumps are constructed of anodized aluminum, brass and stainless steel and have anodized aluminum, brass and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

BETA 130 pumps are excellent choices for various horticultural and agricultural spraying applications.



BETA 130 TS2C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight	List Price
BETA 130 TS2C	34.0	128.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	120 LBS	\$ 4,207.55



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

Specifications	BETA 130
Inlet Port	1-1/2" Hose Barb
Outlet Ports	(3) 3/4" Hose Barb
Bypass	1" Hose Barb
Dimensions	16.8"L x 14.9"W x 17.2"H
Diaphragm Material	GREENTECH (Standard)

Lubrication: Requires 81 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #	List Price
Diaphragm Kit (GREENTECH)	8700.06	\$ 187.77
Diaphragm Bolt / Washer Kit	6062.60	\$ 124.70
Valve Kit	6062.D9	\$ 281.40
Regulator Repair Kit	8701.03	\$ 111.96
Complete Repair Kit	8700.06CK	\$ 532.10

Recommended Accessories and Drive Options



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



6005.05
Control Unit
Regulator



0016.04
Venturi Agitator
1/2" MNPT Inlet



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil

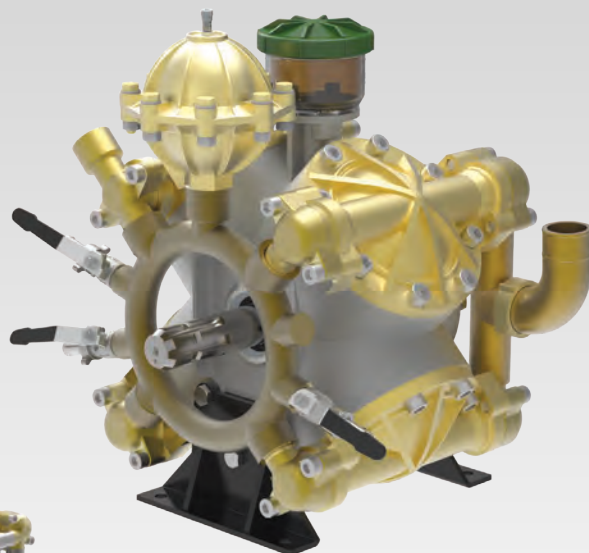


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BETA-170 4-cylinder, high pressure, high volume diaphragm pumps are constructed of anodized aluminum, brass and stainless steel and have anodized aluminum, brass and stainless steel liquid handling parts. Includes mounting rails and 6005.05 control unit with pressure gauge. Simplicity of design and common parts allow for easy and economical maintenance.

BETA-170 pumps are excellent choices for various horticultural and agricultural spraying applications.



BETA 170 TS2C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
BETA 170 TS2C	45.0	170.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	130 LBS

Specifications

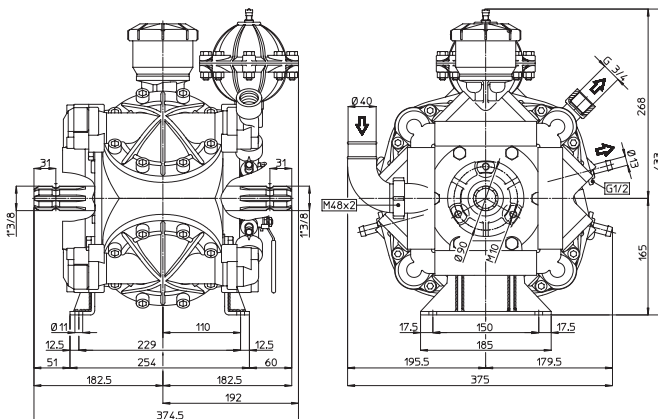
BETA 170

Inlet Port	1-1/2" Hose Barb
Outlet Ports	(2) 1/2" Hose Barb, 3/4" NPT
Bypass	1" Hose Barb
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.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	8700.07
Diaphragm Bolt / Washer Kit	6062.36
Valve Kit	6062.E1
Regulator Repair Kit	8701.03
Complete Repair Kit	8700.07CK



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

Recommended Accessories and Drive Options



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



6005.05
Control Unit
Regulator



0016.04
Venturi Agitator
1/2" MNPT Inlet

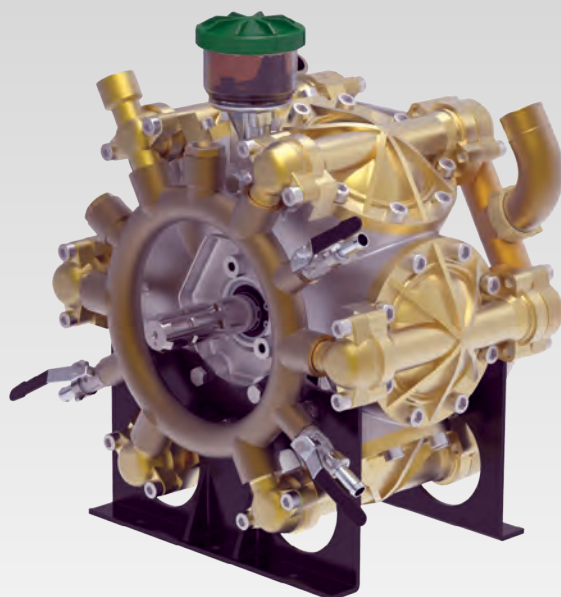


UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil

BETA 200 / BETA 240



Scan this QR Code
for more information



BETA 200 & 240 6-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 200 & 240 pumps are excellent choices for various horticultural and agricultural spraying applications.

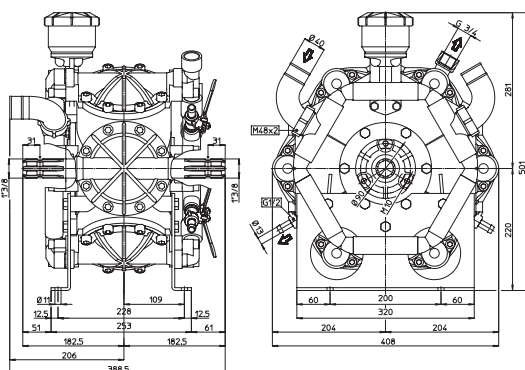


BETA 200 TS2C



BETA 240 TS2C

Model	GPM	l/min	PSI	bar	RPM	Drive Configuration	Weight
BETA 200 TS2C	56.0	218.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	200 LBS
BETA 240 TS2C	64.0	243.0	725	50	550	1-3/8" 6-Spline Male PTO Thru-Shaft	200 LBS



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

Specifications	BETA 200	BETA 240
Inlet Port	(2) 1-1/2" Hose Barb	
Outlet Ports	(2) 1/2" Hose Barb, 3/4" NPT	
Bypass	1-1/4" Hose Barb	
Dimensions	16.1"L x 15.3"W x 19.7"H	
Diaphragm Material	GREENTECH (Standard)	

Lubrication: Requires 170 oz. of Udor Lube 40W Premium Pump Oil.
Alternate Oil: 30W non-detergent or 15W-40 non-detergent oil.

QUICK REFERENCE SERVICE PARTS

Description	Part #
Diaphragm Kit (GREENTECH)	6062.C7
Diaphragm Bolt / Washer Kit	6062.64
Valve Kit	6062.E2
Regulator Repair Kit	8701.03
Complete Repair Kit	8700.55CK

Recommended Accessories and Drive Options



6066.09
Shaft Protector
and Mounting Bolts



6066.05
PTO Drive
Safety Shield



6005.08
Control Unit
Regulator



0016.04
Venturi Agitator
1/2" MNPT Inlet



UD1-1/2-16
1-1/2" HI-Flow Filter
16 Mesh Screen



15.5823
Udor Lube
Premium Pump Oil

ZETA 40

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	33.0	8.7	0.3	0.2	30.0	7.9	0.6	0.4	29.3	7.7	0.8	0.6	28.8	7.6	1.2	0.8	28.5	7.5	1.5	1.1
450	36.5	9.6	0.4	0.3	33.5	8.9	0.7	0.5	32.8	8.7	0.9	0.7	32.3	8.5	1.3	0.9	32.0	8.5	1.7	1.2
500	40.2	10.6	0.4	0.3	37.2	9.8	0.7	0.5	36.5	9.6	1.0	0.8	36.0	9.5	1.4	1.1	35.7	9.4	1.9	1.4
550	44.0	12.0	0.4	0.3	41.0	10.8	0.8	0.6	40.3	10.6	1.2	0.8	39.8	10.5	1.6	1.2	39.5	10.4	2.1	1.5

ZETA 85

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	62.2	16.4	0.6	0.5	58.6	15.5	1.2	0.9	58.2	15.4	1.7	1.2	57.5	15.2	2.3	1.7	57.3	15.1	3.0	2.2
450	69.7	18.4	0.7	0.5	65.9	17.4	1.3	1.0	65.5	17.3	1.9	1.4	64.9	17.1	2.6	1.9	64.6	17.1	3.4	2.5
500	77.2	20.4	0.8	0.6	73.2	19.3	1.5	1.1	72.7	19.2	2.1	1.5	72.2	19.1	2.9	2.1	71.8	19.0	3.8	2.8
550	84.6	23.0	0.8	0.6	80.4	21.2	1.6	1.2	79.9	21.1	2.3	1.7	79.4	21.0	3.2	2.3	79.0	20.9	4.2	3.1

ZETA 70

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	51.5	13.6	0.5	0.4	49.1	13.0	1.0	0.7	48.8	12.9	1.4	1.0	48.4	12.8	1.9	1.4	48.1	12.7	2.5	1.9
450	57.6	15.2	0.6	0.4	55.1	14.6	1.1	0.8	54.6	14.4	1.6	1.1	54.1	14.3	2.2	1.6	53.8	14.2	2.8	2.1
500	63.5	16.8	0.6	0.5	61.2	16.2	1.2	0.9	60.8	16.1	1.7	1.6	60.4	16.0	2.4	1.8	60.0	15.9	3.2	2.3
550	71.0	19.0	0.7	0.5	66.6	17.6	1.3	1.0	66.2	17.5	1.9	1.4	65.8	17.4	2.6	1.9	65.5	17.3	3.4	2.5

ZETA 100

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	72.8	19.2	0.7	0.5	69.2	18.3	1.4	1.0	68.8	18.2	2.0	1.4	68.4	18.1	2.7	2.0	68.2	18.0	3.6	2.6
450	81.6	21.6	0.8	0.6	77.6	20.5	1.6	1.1	77.2	20.4	2.2	1.6	75.5	19.9	3.0	2.2	76.4	20.2	4.0	3.0
500	90.4	23.9	0.9	0.7	86.0	22.7	1.7	1.3	85.6	22.6	2.4	1.8	82.5	21.8	3.3	2.4	84.6	22.4	4.5	3.3
550	98.0	26.0	1.0	0.7	92.7	24.5	1.9	1.4	92.2	24.4	2.6	1.9	91.7	24.2	3.7	2.7	91.3	24.1	4.8	3.5

ZETA 120

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	86.9	23.0	0.9	0.6	83.7	22.1	1.1	0.8	82.8	21.9	2.1	1.6	82.2	21.7	3.2	2.3	81.9	21.6	4.2	3.1
450	96.6	25.5	1.0	0.7	93.4	24.7	1.2	0.9	92.5	24.4	2.4	1.7	91.9	24.3	3.5	2.6	91.6	24.2	4.7	3.5
500	106.3	28.1	1.1	0.8	103.1	27.2	1.3	1.0	102.2	27.0	2.6	1.9	101.6	26.8	3.9	2.9	101.3	26.8	5.2	3.8
550	116.0	31.0	1.2	0.9	112.8	29.8	1.4	1.1	111.9	29.6	2.9	2.1	111.3	29.4	4.3	3.1	111.0	29.3	5.7	4.2

ZETA 140

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	101.7	26.6	1.0	0.7	97.6	25.8	1.3	0.9	97.2	25.7	2.5	1.8	96.9	25.6	3.7	2.7	96.7	25.5	5.0	3.6
450	119.8	31.4	1.2	0.9	108.7	28.7	1.4	1.0	108.3	28.6	2.8	2.0	108.0	28.5	4.2	3.1	107.8	28.5	5.5	4.1
500	123.9	32.5	1.2	0.9	119.8	31.7	1.5	1.1	119.4	31.5	3.1	2.3	119.1	31.5	4.6	3.4	118.9	31.4	6.1	4.5
550	135.0	36.0	1.3	1.0	130.9	34.6	1.7	1.2	130.5	34.5	3.3	2.5	130.2	34.4	5.0	3.7	130.0	34.3	6.7	4.9

ZETA 160

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	125.9	33.3	1.3	0.9	121.0	32.0	1.6	1.1	120.3	31.8	3.1	2.3	119.6	31.6	4.6	3.4	118.9	31.4	6.1	4.5
450	140.6	37.1	1.4	1.0	135.7	35.9	1.7	1.3	135.0	35.7	3.5	2.5	134.3	35.5	5.2	3.8	133.6	35.3	6.9	5.0
500	155.3	41.0	1.6	1.1	150.4	39.7	1.9	1.4	149.7	39.6	3.8	2.8	149.0	39.4	5.7	4.2	148.3	39.2	7.6	5.6
550	170.0	45.0	1.7	1.2	165.1	43.6	2.1	1.6	164.4	43.4	4.2	3.1	163.7	43.2	6.3	4.6	163.0	43.1	8.4	6.1

ZETA 200

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	145.8	38.5	1.5	1.1	140.9	37.2	1.8	1.3	140.2	37.0	3.6	2.6	139.5	36.9	5.4	3.9	138.8	36.7	7.1	5.2
450	163.2	43.1	1.6	1.2	158.3	41.8	2.0	1.5	157.6	41.6	4.0	3.0	156.9	41.5	6.0	4.4	156.2	41.3	8.0	5.9
500	180.6	47.7	1.8	1.3	175.7	46.4	2.3	1.7	175.0	46.2	4.5	3.3	174.3	46.1	6.7	4.9	173.6	45.9	8.9	6.5
550	198.0	53.0	2.0	1.5	193.1	51.0	2.5	1.8	192.4	50.8	4.9	3.6	191.7	50.6	7.4	5.4	191.0	50.5	9.8	7.2

PUMP PERFORMANCE CHARTS



ZETA 230

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	169.5	44.8	1.7	1.2	164.1	43.4	2.1	1.5	162.8	43.0	4.2	3.1	161.6	42.7	6.2	4.6	160.5	42.4	8.2	6.0
450	189.0	49.9	1.9	1.4	183.6	48.5	2.4	1.7	182.3	48.2	4.7	3.4	181.1	47.8	7.0	5.1	180.0	47.6	9.2	6.8
500	208.5	55.1	2.1	1.5	203.1	53.7	2.6	1.9	201.6	53.3	5.2	3.8	200.6	53.0	7.7	5.7	199.5	52.7	10.2	7.5
550	228.0	61.0	2.3	1.7	222.6	58.8	2.9	2.1	221.3	58.5	5.7	4.2	220.1	58.2	8.5	6.2	219.0	57.9	11.2	8.3

ZETA 260

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	190.9	50.4	1.9	1.4	185.5	49.0	2.4	1.7	184.2	48.7	4.7	3.5	183.0	48.3	7.0	5.2	181.9	48.1	9.3	6.9
450	212.6	56.2	2.1	1.6	207.2	54.7	2.7	2.0	205.9	54.4	5.3	3.9	204.7	54.1	7.9	5.8	203.6	53.8	10.4	7.7
500	234.3	61.9	2.3	1.7	228.9	60.5	2.9	2.2	227.6	60.1	5.8	4.3	226.4	59.8	8.7	6.4	225.3	59.5	11.6	8.5
550	256.0	68.0	2.6	1.9	250.6	66.2	3.2	2.4	249.3	65.9	6.4	4.7	248.1	65.5	9.5	7.0	247.0	65.3	12.7	9.3

ZETA 300

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	215.5	56.9	2.2	1.6	213.3	56.4	2.7	2.0	212.2	56.1	5.4	4.0	211.1	55.8	8.1	6.0	210.0	55.5	10.8	7.9
450	242.0	63.9	2.4	1.8	239.3	63.2	3.1	2.3	238.2	62.9	6.1	4.5	237.1	62.6	9.1	6.7	236.0	62.4	12.1	8.9
500	268.5	70.9	2.7	2.0	265.3	70.1	3.4	2.5	264.2	69.8	6.8	5.0	263.1	69.5	10.1	7.4	262.0	69.2	13.4	9.9
550	295.0	78.0	3.0	2.2	291.3	77.0	3.7	2.7	290.2	76.7	7.4	5.5	289.1	76.4	11.1	8.2	288.0	76.1	14.8	10.9

ZETA 350

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	251.0	66.3	2.5	1.8	247.0	65.3	4.9	3.6	244.0	64.5	7.0	5.1	242.0	63.9	9.7	7.1	240.0	63.4	12.6	9.3
450	282.0	74.5	2.8	2.1	278.0	73.4	5.6	4.1	275.0	72.7	7.9	5.8	272.0	71.9	10.9	8.0	270.0	71.3	14.2	10.4
500	314.0	83.0	3.1	2.3	310.0	81.9	6.2	4.6	306.0	80.8	8.7	6.4	303.0	80.1	12.1	8.9	301.0	79.5	15.8	11.6
550	345.0	92.0	3.5	2.5	340.0	89.8	6.8	5.0	336.0	88.8	9.6	7.1	333.0	88.0	13.3	9.8	331.0	87.5	17.4	12.8

ZETA 400

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	292.0	77.1	2.9	2.1	289.0	76.4	5.8	4.2	286.0	75.6	8.2	6.0	284.0	75.0	11.4	8.3	283.0	74.8	14.9	10.9
450	328.0	86.7	3.3	2.4	324.0	85.6	6.5	4.8	321.0	84.8	9.2	6.7	319.0	84.3	12.8	9.4	318.0	84.0	16.7	12.3
500	364.0	96.2	3.6	2.7	360.0	95.1	7.2	5.3	357.0	94.3	10.2	7.5	355.0	93.8	14.2	10.4	354.0	93.5	18.6	13.7
550	400.0	106.0	4.0	2.9	396.0	104.6	7.9	5.8	393.0	103.8	11.2	8.3	391.0	103.3	15.6	11.5	390.0	103.0	20.5	15.1

IOTA 20

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
450	15.9	4.9	0.2	0.1	12.6	3.3	0.3	0.2	12.2	3.2	0.3	0.3	11.9	3.1	0.5	0.3	11.7	3.1	0.6	0.5
500	16.8	4.4	0.2	0.1	14.1	3.7	0.3	0.2	13.7	3.6	0.4	0.3	13.4	3.5	0.5	0.4	13.2	3.5	0.7	0.5
550	17.6	4.6	0.2	0.1	15.3	4.0	0.3	0.2	14.9	3.9	0.4	0.3	14.6	3.9	0.6	0.4	14.4	3.8	0.8	0.6
600	19.0	5.0	0.2	0.1	16.9	4.5	0.3	0.2	16.5	4.4	0.5	0.3	16.2	4.3	0.6	0.5	16.0	4.2	0.8	0.6

IOTA 25

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
450	18.5	4.9	0.2	0.1	16.8	4.4	0.3	0.2	16.4	4.3	0.5	0.3	16.1	4.3	0.6	0.5	15.9	4.2	0.8	0.6
500	20.9	5.5	0.2	0.2	18.5	4.9	0.4	0.3	18.1	4.8	0.5	0.4	17.8	4.7	0.7	0.5	17.6	4.6	0.9	0.7
550	22.5	5.9	0.2	0.2	20.2	5.3	0.4	0.3	19.8	5.2	0.6	0.4	19.5	5.2	0.8	0.6	19.3	5.1	1.0	0.7
600	24.0	7.0	0.2	0.2	22.1	5.8	0.4	0.3	21.7	5.7	0.6	0.5	21.4	5.7	0.9	0.6	21.2	5.6	1.1	0.8

KAPPA 15

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				15 bar / 217 PSI				20 bar / 300 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
1300	14.0	3.7	0.1	0.1	11.2	3.0	0.2	0.2	10.5	2.8	0.3	0.2	10.2	2.7	0.4	0.3	10.0	2.6	0.5	0.4
1350	14.5	3.8	0.1	0.1	11.5	3.0	0.2	0.2	10.7	2.8	0.3	0.2	10.4	2.7	0.4	0.3	10.2	2.7	0.5	0.4
1400	15.0	4.0	0.2	0.1	11.8	3.1	0.2	0.2	10.9	2.9	0.3	0.2	10.6	2.8	0.4	0.3	10.4	2.7	0.5	0.4
1450	16.0	5.0	0.2	0.1	12.1	3.2	0.2	0.2	11.1	2.9	0.3	0.2	10.8	2.9	0.4	0.3	10.6	2.8	0.6	0.4

KAPPA 25

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	21,2	5,6	0,2	0,2	19,2	5,1	0,4	0,3	18,6	4,9	0,5	0,4	18,1	4,8	1,0	0,7	17,6	4,6	1,4	1,0
450	24,0	6,3	0,2	0,2	21,2	5,6	0,4	0,3	20,5	5,4	0,6	0,4	19,9	5,3	1,0	0,8	19,4	5,1	1,5	1,1
500	26,8	7,1	0,3	0,2	23,2	6,1	0,5	0,3	22,4	5,9	0,6	0,5	21,7	5,7	1,1	0,8	21,2	5,6	1,7	1,2
550	30,0	8,0	0,3	0,2	25,2	6,7	0,5	0,4	24,3	6,4	0,7	0,5	23,5	6,2	1,2	0,9	23,0	6,1	1,8	1,3

KAPPA 32

RPM	0 bar / 0 PSI				5 bar / 72 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	28,6	7,6	0,3	0,2	22,2	5,9	0,4	0,3	21,6	5,7	0,6	0,5	21,1	5,6	1,1	0,8	20,7	5,5	1,6	1,2
450	30,1	8,2	0,3	0,2	24,6	6,5	0,5	0,4	24,0	6,3	0,7	0,5	23,5	6,2	1,2	0,9	23,1	6,1	1,8	1,3
500	33,4	8,8	0,3	0,2	27,0	7,1	0,5	0,4	26,4	7,0	0,8	0,6	25,9	6,8	1,4	1,0	25,5	6,7	2,0	1,5
550	36,0	10,0	0,4	0,3	29,6	7,8	0,6	0,4	28,8	7,6	0,8	0,6	28,3	7,5	1,5	1,1	28,0	7,4	2,2	1,6

KAPPA 43

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	33,7	8,9	0,3	0,2	31,8	8,4	0,9	0,7	31,4	8,3	1,7	1,2	31,1	8,2	2,4	1,8	30,8	8,1	3,2	2,3
450	38,0	10,0	0,4	0,3	36,0	9,5	1,0	0,8	35,6	9,4	1,9	1,4	35,3	9,3	2,7	2,0	35,0	9,2	3,6	2,6
500	42,2	11,1	0,4	0,3	40,1	10,6	1,1	0,8	39,7	10,5	2,1	1,5	39,4	10,4	3,1	2,3	39,1	10,3	4,0	2,9
550	46,0	13,0	0,5	0,3	43,5	11,5	1,2	0,9	43,1	11,4	2,3	1,7	42,7	11,3	3,3	2,4	42,3	11,2	4,3	3,2

KAPPA 55

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	41,5	11,0	0,4	0,3	39,1	10,3	1,1	0,8	38,6	10,2	2,0	1,5	38,4	10,1	3,0	2,2	38,2	10,1	3,9	2,9
450	46,5	12,3	0,5	0,3	43,7	11,5	1,2	0,9	43,2	11,4	2,3	1,7	43,0	11,4	3,4	2,5	42,8	11,3	4,4	3,2
500	51,5	13,6	0,5	0,4	48,6	12,8	1,4	1,0	47,9	12,7	2,5	1,9	47,7	12,6	3,7	2,7	47,5	12,5	4,9	3,6
550	57,0	15,0	0,6	0,4	53,6	14,2	1,5	1,1	53,0	14,0	2,8	2,1	52,8	13,9	4,1	3,0	52,6	13,9	5,4	4,0

DELTA 40

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	37,8	10,0	0,4	0,3	26,8	7,1	0,8	0,6	26,3	6,9	1,4	1,0	25,9	6,8	2,0	1,5	25,6	6,8	2,6	1,9
450	41,2	10,9	0,4	0,3	30,2	8,0	0,9	0,6	29,7	7,8	1,6	1,1	29,3	7,7	2,3	1,7	29,0	7,7	3,0	2,2
500	44,7	11,8	0,4	0,3	33,6	8,9	1,0	0,7	33,1	8,7	1,7	1,3	32,7	8,6	2,5	1,9	32,4	8,6	3,3	2,4
550	49,0	13,0	0,5	0,4	36,9	9,7	1,1	0,8	36,4	9,6	1,9	1,4	36,0	9,5	2,8	2,1	35,7	9,4	3,7	2,7

DELTA 75

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	60,4	16,0	0,6	0,4	58,9	15,6	1,7	1,2	58,5	15,5	3,1	2,3	58,1	15,4	4,5	3,3	57,7	15,2	5,9	4,3
450	67,2	17,8	0,7	0,5	65,7	17,4	1,9	1,4	65,2	17,2	3,4	2,5	64,7	17,1	5,0	3,7	64,2	17,0	6,6	4,8
500	73,7	19,5	0,7	0,5	72,2	19,1	2,1	1,5	71,6	18,9	3,8	2,8	71,0	18,8	5,5	4,1	70,4	18,6	7,2	5,3
550	79,0	21,0	0,8	0,6	77,1	20,4	2,2	1,6	76,4	20,2	4,0	3,0	75,7	20,0	5,9	4,3	75,0	19,8	7,7	5,7

DELTA 100

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	80,3	21,2	0,8	0,6	75,7	20,0	2,2	1,6	74,8	19,8	3,9	2,9	73,9	19,5	5,8	4,2	73,0	19,3	7,5	5,5
450	90,2	23,8	0,9	0,7	85,2	22,5	2,4	1,8	84,8	22,4	4,5	3,3	84,0	22,2	6,5	4,8	83,2	22,0	8,5	6,3
500	99,1	26,2	1,0	0,7	94,5	25,0	2,7	2,0	93,7	24,8	4,9	3,6	92,9	24,5	7,2	5,3	92,1	24,3	9,4	6,9
550	104,0	28,0	1,0	0,8	101,0	26,7	2,9	2,1	100,4	26,5	5,3	3,9	99,7	26,3	7,8	5,7	99,0	26,2	10,2	7,5

DELTA 125

RPM	0 bar / 0 PSI				10 bar / 145 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	95,6	25,3	1,0	0,5	92,0	18,3	2,6	1,9	91,2	24,1	4,8	3,5	90,4	23,9	7,0	5,2	89,7	23,7	9,2	6,8
450	107,2	28,3	1,1	0,6	103,5	20,5	3,0	2,2	102,5	27,1	5,4	4,0	101,5	26,8	7,9	5,8	100,7	26,6	10,3	7,6
500	117,6	31,1	1,2	0,7	113,8	22,7	3,3	2,4	112,7	29,8	5,9	4,4	111,7	29,5	8,7	6,4	110,9	29,3	11,4	8,4
550	126,0	34,0	1,3	0,7	121,3	24,5	3,5	2,5	120,2	31,8	6,3	4,6	119,2	31,5	9,3	6,8	118,4	31,3	12,1	8,9

PUMP PERFORMANCE CHARTS



DELTA 140

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	102.4	27.1	1.0	0.7	99.1	26.2	5.2	3.9	98.0	25.9	7.6	5.6	96.9	25.6	10.0	7.3	95.9	25.3	12.4	9.1
450	114.3	30.2	1.1	0.8	110.7	29.2	5.8	4.3	109.6	28.9	8.5	6.3	108.4	28.7	11.1	8.2	107.4	28.4	13.8	10.1
500	127.6	33.7	1.2	0.9	121.9	32.2	6.2	4.6	120.8	31.9	9.2	6.9	119.7	31.6	12.0	8.9	118.7	31.4	14.9	11.0
550	137.8	36.4	1.4	1.0	133.0	35.1	6.7	5.0	131.9	34.8	9.8	7.3	130.8	34.6	12.9	9.5	129.8	34.3	16.0	11.7

DELTA 170

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	136.0	35.9	1.3	1.0	132.3	35.0	6.9	5.1	131.6	34.8	10.1	7.5	130.9	34.6	13.3	9.7	130.2	34.4	16.5	12.1
450	152.4	40.3	1.5	1.1	148.0	39.1	7.7	5.7	147.1	38.9	11.3	8.4	146.2	38.6	14.8	10.9	145.3	38.4	18.4	13.5
500	166.8	44.1	1.6	1.2	160.5	42.4	8.3	6.2	159.3	42.1	12.3	9.2	158.2	41.8	16.0	11.8	157.1	41.5	19.9	14.6
550	179.2	47.3	1.8	1.3	172.0	45.4	8.9	6.6	170.7	45.1	13.1	9.8	169.4	44.7	17.2	12.6	168.0	44.4	21.3	15.6

OMEGA 170

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	134.3	35.5	1.3	1.0	130.7	34.5	6.9	5.1	130.3	34.3	10.1	7.4	129.3	34.2	13.3	9.7	128.6	34.0	16.5	12.1
450	150.5	39.8	1.5	1.1	146.2	38.6	7.7	5.7	145.3	38.4	11.3	8.3	144.4	38.2	14.8	10.9	143.5	37.9	18.4	13.5
500	164.8	43.5	1.6	1.2	158.5	41.9	8.3	6.1	157.4	41.6	12.3	9.0	156.3	41.3	16.0	11.8	155.2	41.0	19.9	14.6
550	177.0	47.0	1.8	1.3	169.9	44.9	8.9	6.6	168.6	44.5	13.1	9.7	167.3	44.2	17.2	12.6	166.0	43.9	21.3	15.6

BETA-130

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	96.0	25.4	1.0	0.7	93.0	24.6	4.9	3.6	92.6	24.5	7.2	5.3	92.2	24.4	9.5	7.0	91.8	24.3	11.8	8.7
450	107.5	28.4	1.1	0.8	104.3	27.6	5.5	4.0	103.8	27.4	8.1	5.9	103.3	27.3	10.6	7.8	102.8	27.2	13.2	9.7
500	118.2	31.2	1.2	0.9	114.5	30.3	6.0	4.4	114.0	30.1	8.9	6.5	113.5	30.0	11.6	8.6	113.0	29.9	14.5	10.6
550	128.0	34.0	1.3	0.9	123.0	32.5	6.5	4.8	122.5	32.4	9.5	7.0	122.0	32.2	12.5	9.2	121.5	32.1	15.6	11.4

BETA-170

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	127.5	33.7	1.3	0.9	123.9	32.7	6.5	4.8	123.0	32.5	9.6	7.0	122.1	32.3	12.5	9.2	121.2	32.0	15.5	11.4
450	143.2	37.8	1.4	1.1	139.2	36.8	7.3	5.4	138.2	36.5	10.8	7.9	137.2	36.2	14.1	10.3	136.2	36.0	17.5	12.8
500	157.5	41.6	1.6	1.2	151.8	40.1	8.0	5.9	150.6	39.8	11.7	8.6	149.4	39.5	15.3	11.3	148.2	39.2	19.0	14.0
550	170.0	45.0	1.7	1.2	162.7	43.0	8.6	6.3	161.3	42.6	12.6	9.2	159.9	42.2	16.4	12.1	158.5	41.9	20.3	14.9

BETA-200

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	162.7	43.0	1.6	1.2	155.6	41.1	8.2	6.0	153.8	40.6	12.0	8.8	152.0	40.2	15.6	11.5	150.2	39.7	19.3	14.2
450	182.0	48.1	1.8	1.3	174.9	46.2	9.2	6.8	173.0	45.7	13.5	9.9	171.1	45.2	17.5	12.9	169.2	44.7	21.7	15.9
500	200.5	53.0	2.0	1.5	193.4	51.1	10.2	7.5	191.4	50.6	14.9	11.0	189.4	50.0	19.4	14.3	187.4	49.5	24.0	17.7
550	218.0	58.0	2.2	1.6	210.9	55.7	11.1	8.2	208.8	55.2	16.3	12.0	206.7	54.6	21.2	15.6	204.6	54.1	26.2	19.3

BETA-240

RPM	0 bar / 0 PSI				20 bar / 290 PSI				30 bar / 435 PSI				40 bar / 580 PSI				50 bar / 725 PSI			
	Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power		Flow rate		Power	
	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW	l/min	GPM	HP	kW
400	189.2	50.0	1.9	1.4	183.2	48.4	9.6	7.1	181.6	48.0	14.2	10.4	180.0	47.6	18.5	13.6	178.4	47.1	22.9	16.8
450	211.3	55.8	2.1	1.6	205.3	54.2	10.8	7.9	203.7	53.8	15.9	11.7	202.1	53.4	20.7	15.2	200.5	53.0	25.7	18.9
500	230.1	60.8	2.3	1.7	224.1	59.2	11.8	8.7	222.5	58.8	17.3	12.7	220.9	58.4	22.7	16.7	219.3	57.9	28.1	20.7
550	243.0	65.0	2.4	1.8	237.0	62.9	12.5	9.2	235.4	62.2	18.3	13.5	233.8	61.8	24.0	17.6	232.2	61.3	29.8	21.9

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	Model	GPM	l/min	PSI	bar	Power Req.	Seal Kit	Valve Kit	Wt.
600 RPM	GAMMA 62 TS 1C	17.7	67.0	725	50	9 EBHP	6062.A1 (Kit 600)	6062.65 (564)	49 lbs
	GAMMA 62 TS 2C	17.7	67.0	725	50	9 EBHP	6062.A1 (Kit 600)	6062.65 (564)	49 lbs
	GAMMA 62 TS GR	17.7	67.0	725	50	9 EBHP	6062.A1 (Kit 600)	6062.65 (564)	49 lbs



GAMMA Series Gear Reduction, Gas Engine Models

1" Hollow Shaft. 6.4:1 Gear Reduction



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for more information



	Model	GPM	l/min	PSI	bar	Power Req.	Seal Kit	Valve Kit	Wt.
Gear Reduction	GAMMA 62/GR	17.7	67.0	725	50	9-13 HP Gas	6062.A1 (Kit 600)	6062.65 (564)	64 lbs
	GAMMA 62/GR-18	17.7	67.0	725	50	16-20 HP Gas	6062.A1 (Kit 600)	6062.65 (564)	70 lbs



- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves

- 1-1/2" Hose Barb Inlet.
- (2) 3/4" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



Scan this QR Code
for more information



GAMMA Series Plunger Pumps

1-3/8" 6-Spline PTO Thru-Shaft

	Model	GPM	l/min	PSI	bar	Power Req.	Seal Kit	Valve Kit	Wt.
600 RPM	GAMMA 85 TS 1C	22.6	85.0	870	60	13.5 EBHP	6062.50 (549)	6062.49 (548)	83 lbs
	GAMMA 85 TS 2C	22.6	85.0	870	60	13.5 EBHP	6062.50 (549)	6062.49 (548)	83 lbs
	GAMMA 105 TS 1C	28.6	108.0	870	60	17 EBHP	6062.50 (549)	6062.49 (548)	83 lbs
	GAMMA 105 TS 2C	28.6	108.0	870	60	17 EBHP	6062.50 (549)	6062.49 (548)	83 lbs
	GAMMA 125 TS 1C	35.1	133.0	870	60	21 EBHP	6062.50 (549)	6062.49 (548)	83 lbs
	GAMMA 125 TS 2C	35.1	133.0	870	60	21 EBHP	6062.50 (549)	6062.49 (548)	83 lbs



- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- 1-1/2" Hose Barb Inlet.
- (2) 3/4" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 2C
1-3/8" PTO x
1-3/8" PTO



Scan this QR Code
for more information



GAMMA Series Plunger Pumps

1-3/8" 6-Spline PTO Thru-Shaft

	Model	GPM	l/min	PSI	bar	Power Req.	Seal Kit	Valve Kit	Wt.
600 RPM	GAMMA 155 TS 2C	40.4	153.0	725	50	20 EBHP	6062.G5 (665)	6061.Q4 (205)	84 lbs



- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves

- 2" Hose Barb Inlet.
- (4) 3/4" BSP-F Outlet
- 65 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



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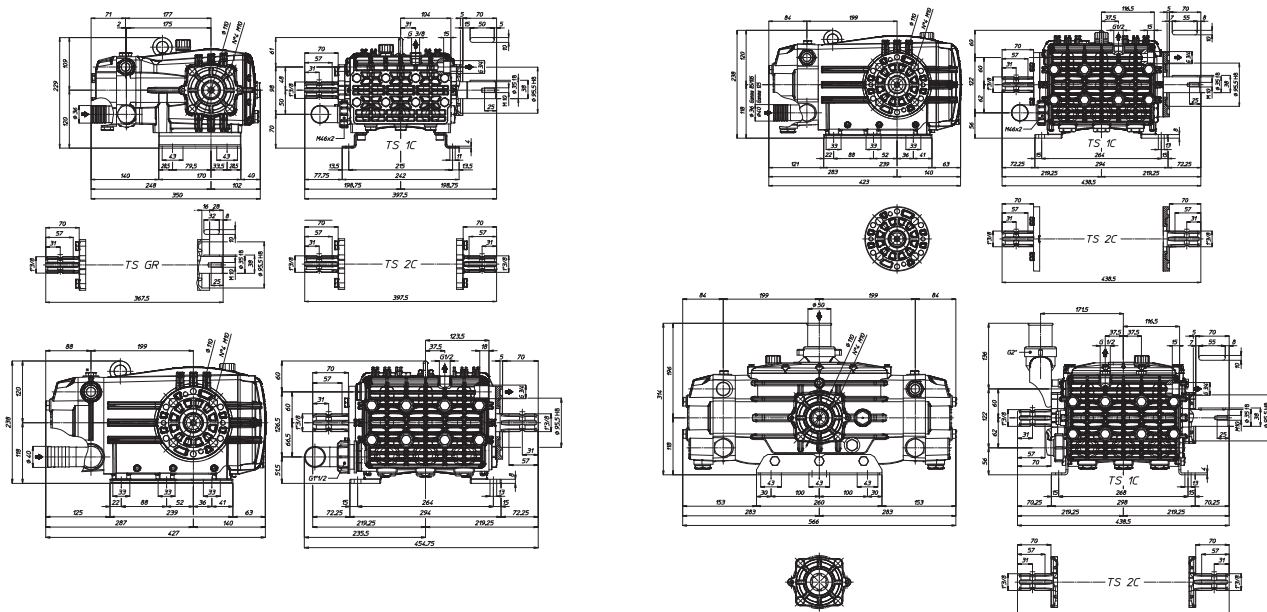


GAMMA Series Plunger Pumps

1-3/8" 6-Spline PTO Thru-Shaft

	Model	GPM	l/min	PSI	bar	Power Req.	Seal Kit	Valve Kit	Wt.
600 RPM	GAMMA 162 TS 1C	43.3	164.0	870	60	25.5 EBHP	6062.71 (570)	6062.70 (569)	115 lbs
	GAMMA 162 TS 2C	43.3	164.0	870	60	25.5 EBHP	6062.71 (570)	6062.70 (569)	115 lbs
	GAMMA 202 TS 1C	55.0	208.0	870	60	32 EBHP	6062.71 (570)	6062.70 (569)	140 lbs
	GAMMA 202 TS 2C	55.0	208.0	870	60	32 EBHP	6062.71 (570)	6062.70 (569)	115 lbs
	GAMMA 242 TS 1C	63.4	240.0	870	60	37 EBHP	6062.71 (570)	6062.70 (569)	115 lbs
	GAMMA 242 TS 2C	63.4	240.0	870	60	37 EBHP	6062.71 (570)	6062.70 (569)	115 lbs

Dimensional Drawings



ZETA SERIES HYDRAULIC DRIVE PUMP/MOTOR ASSEMBLIES



ZETA-40/HYD



ZETA-85/HYD



ZETA-120/HYD



ZETA-170/HYD

Model	GPM	l/min	PSI	bar	RPM	Hydraulic Requirements	Hyd. Motor	Weight
ZETA-40/HYD	10.5	40	300	20	550	8.0 GPM @ 800 PSI	OMP-50	-
ZETA-40P/HYD	10.5	40	300	20	550	8.0 GPM @ 800 PSI	OMP-50	-
ZETA-85/HYD	22.0	83	300	20	550	8.0 GPM @ 800 PSI	OMP-50	-
ZETA-85P/HYD	22.0	83	300	20	550	8.0 GPM @ 800 PSI	OMP-50	-
ZETA-120/HYD	31.0	117	300	20	550	14.0 GPM @ 1000 PSI	OMP-100	-
ZETA-170/HYD	45.0	170	300	20	550	14.0 GPM @ 1200 PSI	OMP-100	-

KAPPA SERIES HYDRAULIC DRIVE PUMP/MOTOR ASSEMBLIES



KAPPA-43/HYD



KAPPA-55/HYD

Model	GPM	l/min	PSI	bar	RPM	Hydraulic Requirements	Hyd. Motor	Weight
KAPPA-43/HYD	10.5	40	560	38	550	8.0 GPM @ 800 PSI	OMP-50	-
KAPPA-55/HYD	15.0	57	560	38	550	8.0 GPM @ 1000 PSI	OMP-50	-

DELTA SERIES HYDRAULIC DRIVE PUMP/MOTOR ASSEMBLIES



DELTA-40/HYD



DELTA-75/HYD



DELTA-100/HYD

Model	GPM	l/min	PSI	bar	RPM	Hydraulic Requirements	Hyd. Motor	Weight
DELTA-40/HYD	10.5	40	560	38	550	8.0 GPM @ 800 PSI	OMP-50	-
DELTA-75/HYD	20.0	76	560	38	550	14.0 GPM @ 1800 PSI	OMP-100	-
DELTA-100/HYD	26.0	100	700	48	550	14.0 GPM @ 1800 PSI	OMP-100	-

GAMMA SERIES HYDRAULIC DRIVE PUMP/MOTOR ASSEMBLIES



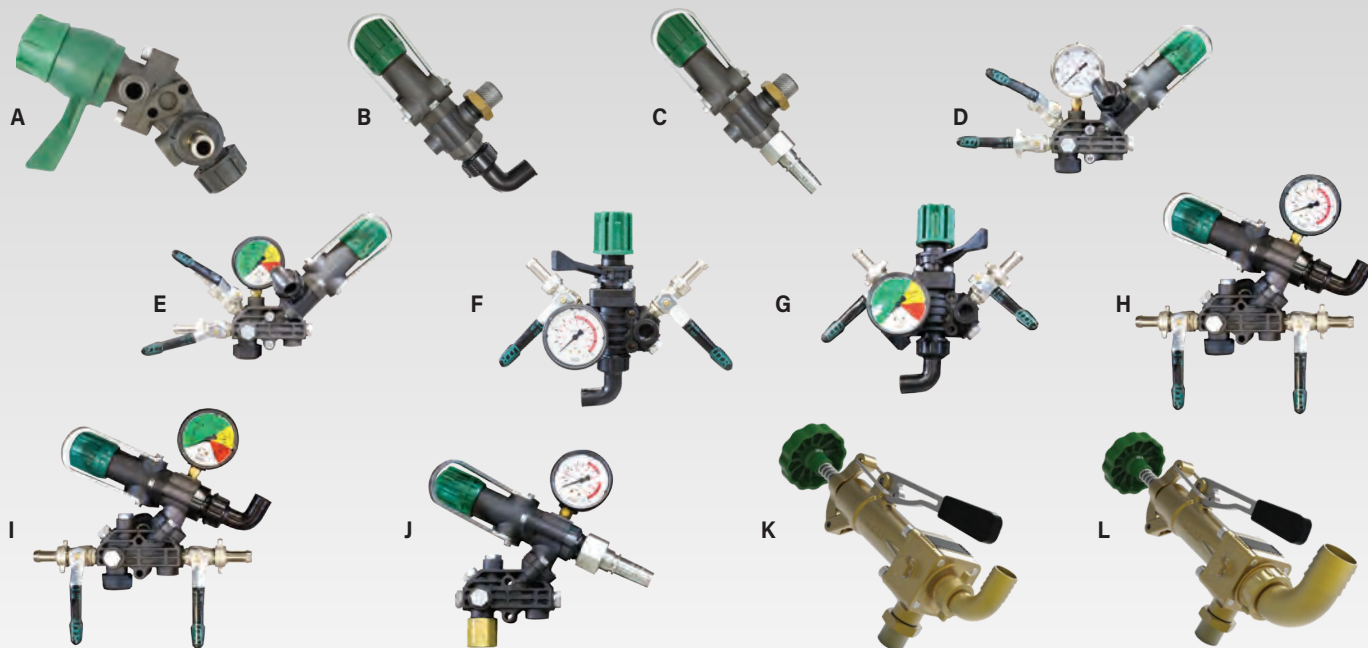
GAMMA-62/CC-HYD



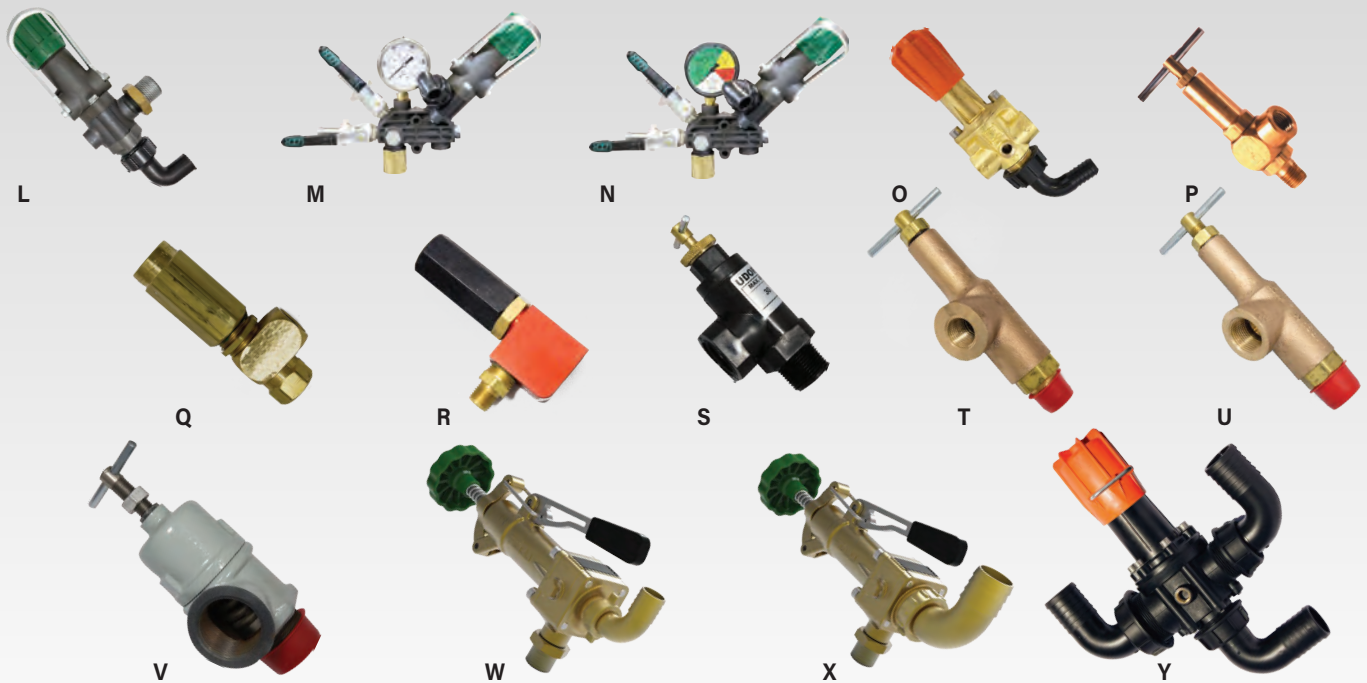
GAMMA-105/CC-HYD

Model	GPM	l/min	PSI	bar	RPM	Hydraulic Requirements	Hyd. Motor	Weight
GAMMA-62/CC-HYD	17.7	67	725	50	600	14.0 GPM @ 1400 PSI	OMP-100	75 LBS
GAMMA-105/CC-HYD	26.0	100	850	58	600	14.0 GPM @ 1800 PSI	OMP-100	100 LBS





	Model	GPM	l/min	PSI	bar	Inlet	Outlet	Bypass
A	6010.23	7.0	26.0	290	20	-	3/8" Hose Barb	5/8" Hose Barb
	8701.01	Repair Kit for 6010.23						
B	6005.31	32.0	121.0	600	41	3/4" Male BSP	-	3/4" Hose Barb
	6062.93	Repair Kit for 6005.31						
B	6005.31/LP	32.0	121.0	350	24	3/4" Male BSP	-	3/4" Hose Barb
	6062.93	Repair Kit for 6005.31/LP						
C	6005.31/IND	32.0	121.0	600	41	3/4" Male BSP	-	3/4" Hose Barb
	6062.93	Repair Kit for 6005.31/IND						
D	6010.24	27.0	102.0	560	38	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.55	Repair Kit for 6010.24						
E	6010.24/LP	27.0	102.0	350	24	-	(2) 1/2" Hose Barb	3/4" Hose Barb0.0
	6062.55	Repair Kit for 6010.24/LP						
F	6010.93	27.0	102.0	560	38	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.A9	Repair Kit for 6010.93						
F	6010.95	27.0	102.0	350	24	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.A9	Repair Kit for 6010.95						
G	6010.96	27.0	102.0	350	24	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.A9	Repair Kit for 6010.96						
H	6047.06	27.0	102.0	560	38	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.53	Repair Kit for 6047.06						
I	6047.06/LP	27.0	102.0	350	24	-	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.53	Repair Kit for 6047.06/LP						
J	6047.06/IND	27.0	102.0	350	24	-	3/4" FPT	3/4" Hose Barb
	6062.53	Repair Kit for 6047.06/IND						
K	6005.05	47.3	179.2	1200	81	3/4" Male BSP	-	1" Hose Barb
	6062.54	Repair Kit for 6005.05 / 6005.08						
L	6005.08	66.0	250.0	1200	81	3/4" Male BSP	-	1-1/2" Hose Barb
	6062.54	Repair Kit for 6005.05 / 6005.08						



	Model	GPM	l/min	PSI	bar	Inlet	Outlet	Bypass
L	6005.31/N	32.0	121.0	600	41	3/4" MPT	-	3/4" Hose Barb
	6062.93	Repair Kit for 6005.31/N						
L	6005.31/LP-N	32.0	121.0	350	24	3/4" MPT	-	3/4" Hose Barb
	6062.93	Repair Kit for 6005.31/LP-N						
M	6010.25/HP	27.0	102.0	560	38	3/4" FPT	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.55	Repair Kit for 6010.25/HP						
N	6010.25	27.0	102.0	350	24	3/4" FPT	(2) 1/2" Hose Barb	3/4" Hose Barb
	6062.55	Repair Kit for 6010.25						
O	1238.N4	40.0	152.0	400	27	3/4" MPT	-	3/4" Hose Barb
	1238.N4/K	Repair Kit for 1238.N4						
P	UD1/4-150	4.5	17.0	150	10	1/4" MPT	-	3/8" FPT
Q	UD500F	7.0	26.5	500	34	3/8" FPT	-	3/8" FPT
	UD550F	7.0	26.5	1000	68	3/8" FPT	-	3/8" FPT
	UD555F	7.0	26.5	2000	136	3/8" FPT	-	3/8" FPT
	UD555K	Repair Kit for UD500F, UD550F & UD555F						
R	UD1/4-300	4.5	17.0	300	20	1/4" MPT	-	3/8" FPT
R	UD3/4-60/P	30.0	113.7	70	5	3/4" MPT	-	3/4" FPT
S	UD3/4-250/P	30.0	113.7	250	17	3/4" MPT	-	3/4" FPT
T	UD1/2-300	20.0	75.8	300	20	1/2" MPT	-	1/2" FPT
U	UD3/4-300	30.0	113.7	300	20	3/4" MPT	-	3/4" FPT
V	15-2740	80.0	303.2	300	20	1-1/4" MPT	-	1-1/4" FPT
W	6005.05/N	47.3	179.2	1200	81	3/4" Male NPT	-	1" Hose Barb
	6062.54	Repair Kit for 6005.05 / 6005.08						
X	6005.08/N	66.0	250.0	1200	81	3/4" Male NPT	-	1-1/2" Hose Barb
	6062.54	Repair Kit for 6005.05 / 6005.08						
Y	VRG-400	106.0	402.0	290	20	1-1/2" Hose Barb	1-1/2" Hose Barb	1-1/2" Hose Barb


A

B

C

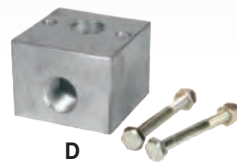
D

	Model	GPM	l/min	PSI	bar	Inlet	Outlet	Bypass
A	6010.26/HP	27.0	102.0	560	38	3/4" Hose Barb	(2) 1/2" Hose Barb	1" Hose Barb
	6062.55	Repair Kit for 6010.26/HP						
B	6010.26	27.0	102.0	350	24	3/4" Hose Barb	(2) 1/2" Hose Barb	1" Hose Barb
	6062.55	Repair Kit for 6010.26						
C	6004.06	32.0	121.0	600	41	3/4" Hose Barb	(2) 1/2" Hose Barb	1" Hose Barb
	6062.56	Repair Kit for 6004.06						
D	SB3	40.0	152.0	1160	79	3/4" MPT	(3) 1/2" Hose Barb	1" Hose Barb
	SB3/KIT	Repair Kit for SB3						

REGULATOR ACCESSORIES


A

B

C

D

E

F

G

	Model	Description
A	7704.05	For use with standard pumps for remote mounting 6010.24/LP, 6047.06/LP or 6010.95 control units Includes 3/4" hose barb outlet for pump and 3/4" hose barb inlet for control unit.. Max 350 PSI
B	7704.07	For use with standard pumps for remote mounting 6010.24, 6047.06 or 6010.93 control units Includes 3/4" MPT outlet for pump and 3/4" FPT inlet for control unit.. Max 560 PSI
C	7705.00	Aluminum Mounting Block. (4) 3/4" FNPT, (3) 1/2" FNPT, (1) 1/4" FNPT Port. MAX. 2000 PSI
D	7705.10	Plated Steel Remote Mounting Block, 3/8" FNPT x 3/8" FNPT Ports. MAX. 4000 PSI
D	7705.20	Plated Steel Remote Mounting Block, 1/2" FNPT x 1/2" FNPT Ports. MAX. 4000 PSI
E	1291.B9	3/4" Plated Steel Bypass Hose Barb. Std. on 6047.06/IND Control Unit. Fits 6010.24 & 6047.06
F	162.604.2	3/8" Straight Hose Barb. 1/2" Fly Nut. Use as Outlet on Most Control Units or Spray Gun Inlet.
F	162.604.4	1/2" Straight Hose Barb. 1/2" Fly Nut. Use as Outlet on Most Control Units or Spray Gun Inlet.
G	163.604.2	3/8" 90 Hose Barb. 1/2" Fly Nut. Use as Outlet on Most Control Units or Spray Gun Inlet.
G	163.604.6	1/2" 90 Hose Barb. 1/2" Fly Nut. Use as Outlet on Most Control Units or Spray Gun Inlet.

TRIGGER SPRAY GUNS



	Model	GPM	l/min	PSI	bar	Inlet	Outlet
A	1238.M8	5.0	19.5	300	20	3/8" Hose Barb	1/4" FNPT
	8711.05	Repair Kit for 1238.M8 Spray Gun					
B	29.1903.7	18.0	68.2	700	48	1/2" FNPT	1/2" FNPT
	8711.03	Repair Kit for 29.1903.7 Spray Gun					
C	15.0003.13	18.0	68.2	400	27	1/2" FNPT	1/2" FNPT
	8711.07	Repair Kit for 15.0003.13 Spray Gun					
D	1215.29	16.0	60.6	350	24	1/2" FNPT	Adjustable Pattern
E	23.208.84	18.0	68.2	700	48	1/2" FNPT	1/2" FNPT
	8711.03	Repair Kit for 23.208.84 Spray Gun					
F	1215.18	10.0	37.9	4000	272	3/8" FNPT	1/4" FNPT
	1215.18K	Repair Kit for 1215.18 Spray Gun					
G	1215.26	10.5	39.8	5800	395	3/8" FNPT	1/4" FNPT
	1215.26K	Repair Kit for 1215.26 Spray Gun					
H	1215.31	13.0	49.3	5000	340	3/8" FNPT	1/4" FNPT
	1215.31K	Repair Kit for 1215.31 Spray Gun					
I	ST3002	25.0	94.8	8700	600	1/2" FNPT	1/2" FNPT
	ST3002K	Repair Kit for ST3002 Spray Gun					
J	1215.38	53.0	201	3000	204	3/4" FNPT	1/2" FNPT
	1215.38K	Repair Kit for 1215.38 Spray Gun					



COLUMN SPRAYERS



Adjustable spray pattern from straight stream to a fine cone mist.

Model	GPM	l/min	PSI	bar	Description
1238.G4	50.0	189.5	850	58	Column Mounted Spray Gun. Adjustable Pattern. 360° Rotation
1238.G3	Brass Spray Column. Holds up to Five (5) Column Mounted Spray Guns. (Sold Separately)				

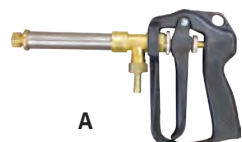
TURBINE & LONG RANGE SPRAY GUNS



Adjustable spray pattern from straight stream to a fine cone mist.

Model	GPM	l/min	PSI	bar	Description
7.901.103	25.0	95.0	850	58	Turbine Spray Gun with 17" Barrel. 1/2" Male BSP Inlet. 10mm Inner Tube. 4.5mm Orifice
7.901.103B					Turbine Spray Gun with 1/2" Hose Barb Inlet Fitting
7.901.103C					Turbine Spray Gun with 1/2" Female NPT Inlet Fitting
7.901.103SMB					Turbine Spray Gun with 1/2" Male BSP Swivel Inlet Fitting
13.901.151	30.0	114.0	850	58	Long Range Spray Gun with 21" Barrel. 1/2" Male BSP Inlet. 12mm Inner Tube. 3.5mm Orifice
13.901.151B					Long Range Spray Gun with 1/2" Hose Barb Inlet Fitting
13.901.151C					Long Range Spray Gun with 1/2" Female NPT Inlet Fitting
13.901.151SMB					Long Range Spray Gun with 1/2" Male BSP Swivel Inlet Fitting
KIT-10/11					Repair Kit for 7.901.103 & 13.901.151 Spray Guns

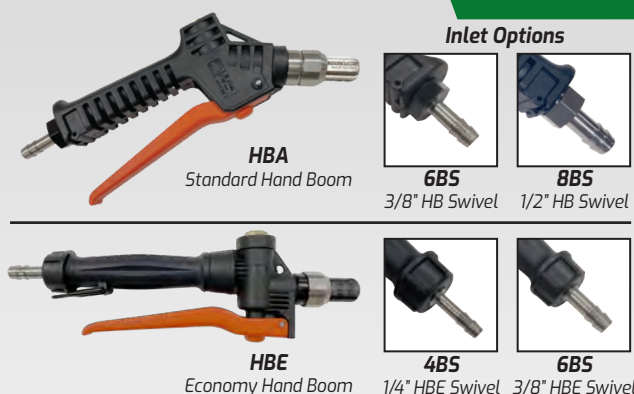
ECONOMY & TURBO SPRAY GUNS



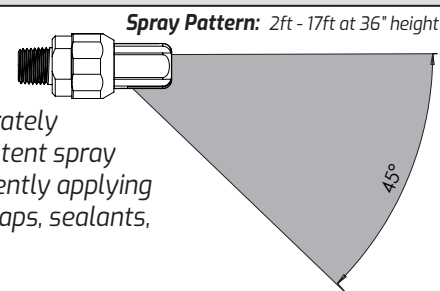
Adjustable spray pattern. Straight stream to fine cone mist.

	Model	GPM	l/min	PSI	bar	Description
A	35.901.16	5.0	19.0	600	41	Economy Spray Gun. 7" Barrel. 2.3 Tip. Adjustable Pattern
	35.302.18					Repair Kit for 35.901.16 Spray Gun
B	26.901.162	15.0	57.0	850	58	Turbo Spray Gun with 8" Barrel. 2.3 mm Orifice
	8711.03					Repair Kit for 26.901.162 Spray Gun
C	26.901.400	15.0	57.0	850	58	Turbo 400 Spray Gun, 8" Barrel, 1/2" MBSP Inlet 2.3 mm Orifice
	8711.03					Repair Kit for 26.901.400 Spray Gun

HAND BOOMS



Designed to save time and conserve product, Udor Hand Booms accurately apply fluid with a consistent spray pattern. Great for efficiently applying pesticides, fertilizers, soaps, sealants, and deicing brines.



Model	GPM	l/min	PSI	bar	Description
HBA1160-XXX	1.0	3.8	30	2	Standard Hand Boom with 1160HB Stainless Boominator® Nozzle. 2-14 ft Coverage
HBA1250-XXX	2.0	7.6	30	2	Standard Hand Boom with 1250HB Stainless Boominator® Nozzle. 2-15 ft Coverage
HBA1400-XXX	3.0	11.4	30	2	Standard Hand Boom with 1400HB Stainless Boominator® Nozzle. 2-16 ft Coverage
HBA1870-XXX	4.0	15.2	30	2	Standard Hand Boom with 1870HB Stainless Boominator® Nozzle. 2-17 ft Coverage
HBE1160-XXX	1.0	3.8	30	2	Economy Hand Boom with 1160HB Poly Boominator® Nozzle. 2-14 ft Coverage
HBE1250-XXX	2.0	7.6	30	2	Economy Hand Boom with 1250HB Poly Boominator® Nozzle. 2-15 ft Coverage
HBE1400-XXX	3.0	11.4	30	2	Economy Hand Boom with 1400HB Poly Boominator® Nozzle. 2-16 ft Coverage
HBE1870-XXX	4.0	15.2	30	2	Economy Hand Boom with 1870HB Poly Boominator® Nozzle. 2-17 ft Coverage
8711.03	Repair Kit for Standard & Economy Hand Booms				

* Designate Inlet Fitting When Ordering. **Ex. HBA1870-6BS or HBE1160-4BS**

SPRAY TIP PERFORMANCE

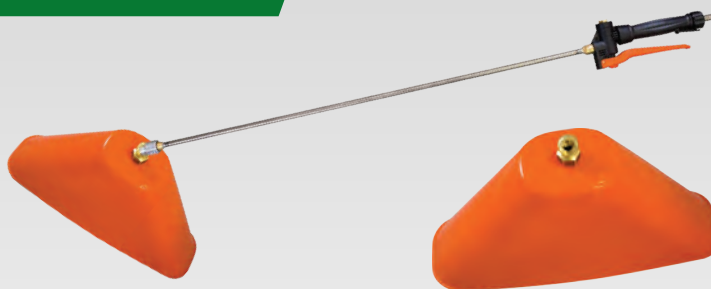
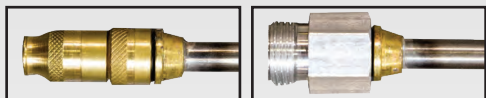
HIGH PERFORMANCE SPRAY GUNS

Model	Orifice (mm)	Material	Gallons per Minute / Maximum Spray Distance in Feet				
			100 PSI	200 PSI	400 PSI	600 PSI	800 PSI
68.1802.51	1.5	Ceramic	.78 / 17	1.1 / 20	1.5 / 23	1.8 / 25	2.1 / 27
68.1802.52	1.8	Ceramic	1.1 / 19	1.6 / 21	2.3 / 24	2.6 / 26	2.9 / 28
68.1802.53	2.0	Ceramic	1.4 / 21	2.0 / 24	2.8 / 26	3.4 / 29	3.8 / 32
68.1802.54	2.3	Ceramic	2.0 / 24	2.5 / 29	4.0 / 34	5.0 / 42	5.5 / 45
68.1802.16	2.5	Ceramic	2.5 / 23	3.0 / 28	4.5 / 32	5.5 / 40	6.5 / 44
68.1802.17	3.0	Ceramic	3.0 / 28	4.5 / 29	6.5 / 34	8.0 / 41	9.0 / 44
13.1802.73	3.5	S/S	4.5 / 31	6.0 / 36	8.5 / 41	11.0 / 50	12.0 / 54
13.1802.58	4.0	S/S	5.0 / 35	7.5 / 38	10.0 / 43	13.5 / 53	14.5 / 59
13.1802.59	4.5	S/S	6.5 / 37	9.0 / 39	12.5 / 44	16.5 / 54	18.0 / 62
13.1802.60	5.0	S/S	7.5 / 33	10.0 / 41	14.0 / 47	18.5 / 59	21.0 / 67
13.1802.61	5.5	S/S	8.0 / 35	11.5 / 42	16.0 / 47	21.0 / 59	23.0 / 70
13.1802.75	6.0	S/S	9.0 / 38	12.5 / 44	18.0 / 54	23.0 / 66	26.0 / 74
13.1802.74	7.0	S/S	9.5 / 21	13.5 / 47	19.0 / 57	24.0 / 70	27.0 / 77

ECONOMY SPRAY GUNS

Model	Orifice (mm)	Gallons per Minute / Maximum Spray Distance in Feet					
		40 PSI	100 PSI	200 PSI	300 PSI	400 PSI	500 PSI
68.1802.47	1.5	.50 / 14	.78 / 17	1.1 / 20	1.3 / 22	1.5 / 23	1.7 / 24
68.1802.48	1.8	.70 / 17	1.1 / 19	1.6 / 21	1.9 / 23	2.3 / 24	2.5 / 26
68.1802.55	2.0	.89 / 19	1.4 / 21	2.0 / 24	2.5 / 24	2.8 / 26	3.2 / 27
68.1802.68	2.3	1.3 / 22	2.0 / 24	2.8 / 24	3.4 / 26	4.0 / 27	4.4 / 29

SPOT SPRAY GUNS



Model	GPM	l/min	PSI	bar	Wand Length	Description
4.802.14	5.0	19	300	20	20"	Poly Trigger Valve. 3/8" Hose Barb Inlet. Adjustable Nozzle
4.802.18	5.0	19	300	20	20"	Poly Trigger Valve. 3/8" Hose Barb Inlet. 11/16" Male Adapter
4.802.24	5.0	19	300	20	28"	Poly Trigger Valve. 3/8" Hose Barb Inlet. Adjustable Nozzle
4.802.20	5.0	19	300	20	28"	Poly Trigger Valve. 3/8" Hose Barb Inlet. 11/16" Male Adapter
4.802.30	5.0	19	300	20	28"	Poly Trigger Valve. 3/8" HB Inlet. Spray Shield. 8002 Nozzle
1238.C1	Spray Shield with 8002 Spray Tip. 14"L x 5"W x 7"H. 1/4" FNPT Inlet.					
8711.03	Repair Kit for 4.802.XX Spray Gun Assemblies					

ROOT FEEDER

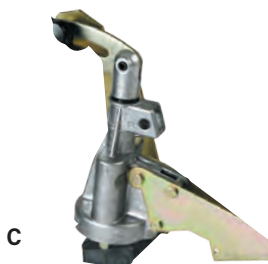
UDOR Root Feeder features:

- Nickel-plated trigger valve with 1/2" Female NPT swivel inlet, trigger guard & molded rubber hand grip.
- 3/4" stainless steel tubing with adjustable foot bar.
- Stainless steel 4-hole injector nozzle.
- 42" overall length.



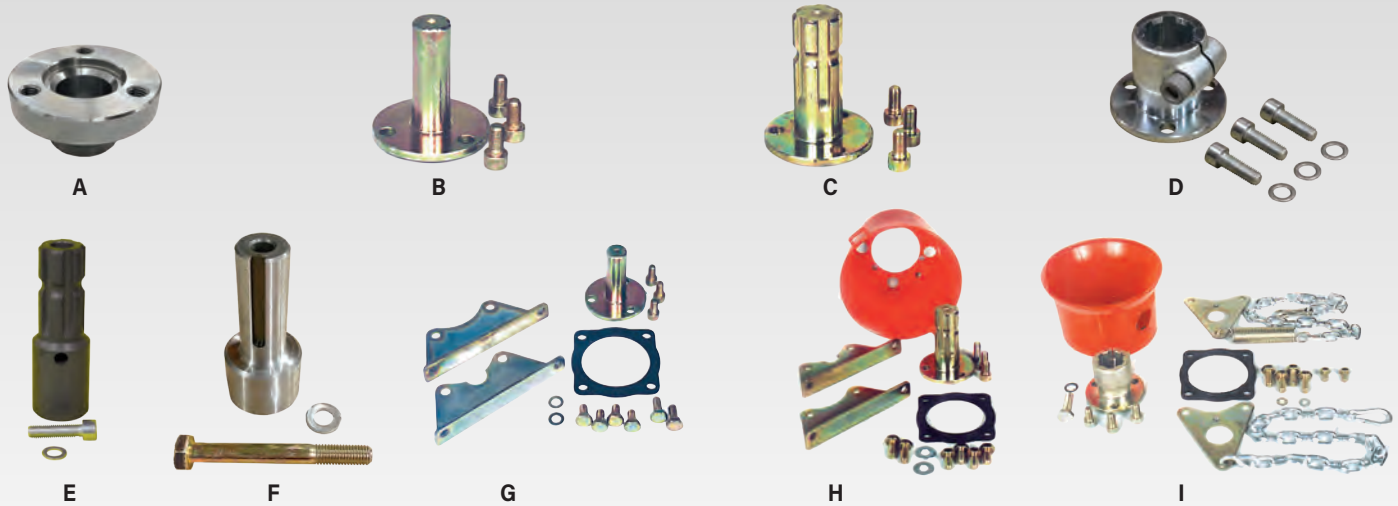
	Model	GPM	l/min	PSI	bar	Inlet	Description
A	34.1302.2	20.0	76	450	30	1/2" Female NPT Swivel	Root Feeder. 3/4" SS Tubing. 4-Hole Injector Nozzle
	8711.03	Repair Kit for 34.1302.2 Root Feeder					
B	34.1803.26	Replacement Injection Nozzle for Root Feeder					

SPRAY BOOM HINGES



	Model	Description
C	6035.02	Spray Boom Hinge. Breakaway Design. Ramp Action Repositioning. Dbl Action Folding. For 1" Sq Tubing
D	6035.18	Spray Boom Hinge. Breakaway Design. Dbl Action Folding. Replacement Hinge for UDOR Spray Booms.

SHAFT ADAPTER KITS

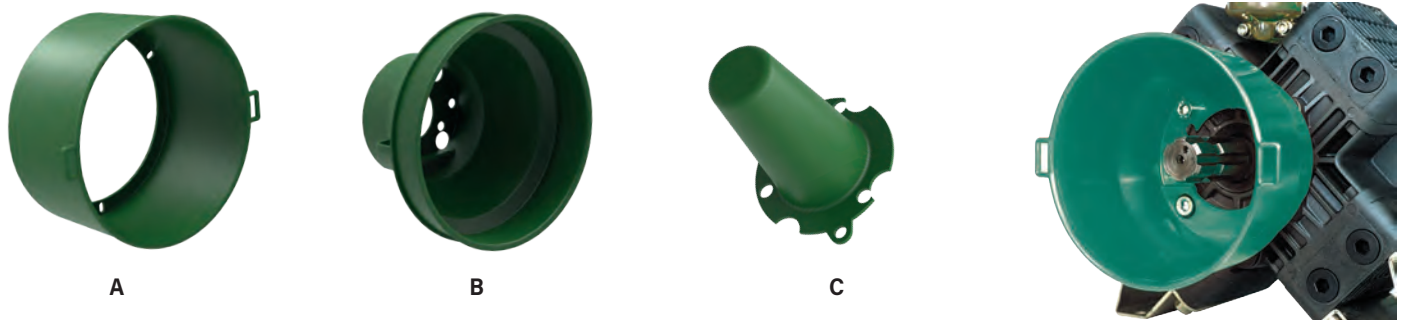


	Model	Description	Pump Application
A	0501.05	Crankshaft Adapter to use Universal 3-bolt shafts on IOTA-18/20	IOTA 18 / 20
B	7750.31	3/4" Solid Keyed Shaft	Universal VA Drive Face
B	7751.A3	1" Solid Keyed Shaft	Universal VA Drive Face
C	7753.A6	1-3/8" 6-Spline Male PTO Shaft	Universal VA Drive Face
D	0905.09K	1-3/8" 6-Spline Female PTO Coupler	Universal VA Drive Face
E	0005.34K	1-3/8" 6-Spline Male PTO x 25 mm Hollow Shaft	25mm Solid Keyed Shaft
F	0005.38K	1" Male Keyed Shaft x 25 mm Hollow Shaft	25mm Solid Keyed Shaft
G	7751.A9	3/4" Solid Keyed Shaft with Mounting Rails	Universal VA Drive Face
G	7751.A1	1" Solid Keyed Shaft with Mounting Rails	Universal VA Drive Face
H	7702.01	1-3/8" 6-Spline Male PTO Shaft with Mounting Rails and Safety Shield	Universal VA Drive Face
I	7752.A2	1-3/8" 6-Spline Female PTO Coupler with Torque Arms, Chains and Safety Shield.	Universal VA Drive Face

SAFETY SHIELDS

FOR YOUR PROTECTION

We Recommend Safety Shields for ALL PTO Drive and Thru-Shaft Applications



	Model	Description
A	6066.02	For ZETA-85/100/120/140 C-Series Pumps
B	6066.05	Shield for Male PTO Drive Applications
C	6066.09	Shield for Male Thru-Shaft Applications

GEAR REDUCTIONS



Model	Pump Series	Power	Gear Ratio	Oil Capacity	Engine Shaft
5047.D7	KAPPA 15	3 - 5 HP	2.375 : 1	2 oz.	3/4"

* 80/90W Gear Oil Recommended in All Udor Gear Reductions



Model	Pump Series	Power	Gear Ratio	Oil Capacity	Engine Shaft
5028.76	IOTA 17	3 - 5 HP	5 : 1	3 oz.	3/4"
5094.76	IOTA 20	3 - 5 HP	5 : 1	3 oz.	3/4"
5085.F7	IOTA 25, KAPPA 25	3 - 5 HP	5 : 1	3 oz.	3/4"

* 80/90W Gear Oil Recommended in All Udor Gear Reductions



Model	Pump Series	Power	Gear Ratio	Oil Capacity	Engine Shaft
5027.75	KAPPA 55 ZETA 40/85/120	3.5 - 6.5 HP	6 : 1	16 oz.	3/4"
5071.75	KAPPA 32, KAPPA 43 DELTA 40	3.5 - 6.5 HP	6 : 1	16 oz.	3/4"

* 80/90W Gear Oil Recommended in All Udor Gear Reductions



Model	Pump Series	Power	Gear Ratio	Oil Capacity	Engine Shaft
5033.A4	KAPPA 55 DELTA 75, ZETA 120	8 - 16 HP	6.4 : 1	17.25 oz.	1"
5053.E5	GAMMA 62	8 - 16 HP	6.4 : 1	17.25 oz.	1"

* 80/90W Gear Oil Recommended in All Udor Gear Reductions



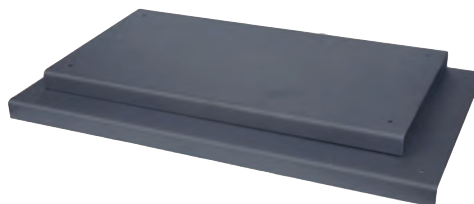
Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5034.B5	DELTA 100/125/140	16 - 22 HP	6.25 : 1	28.0 oz.	1"
5063.B5	GAMMA 62	16 - 22 HP	6.25 : 1	28.0 oz.	1"
5096.B5	DELTA 170	25-36 HP	6.25 : 1	28.0 oz.	1-1/8"

* 80/90W Gear Oil Recommended in All Udor Gear Reductions

MOUNTING HARDWARE



A



B

Model		Description
A	C5429	Rubber Bushing w/ Molded-in Washer 1-3/4" H x 1-7/8" D for Pump, Base Plate or Engine Support
A	C8076	Rubber Bushing with Molded In Washer 3/4" H x 1-1/4" D for Pump, Base Plate or Engine Support
B	9700.00	Base Plate - 14" x 26"
B	9700.10	Base Plate - 17" x 30"
B	9700.20	Base Plate - 14" x 20"
B	9700.25	Base Plate - 25" x 36"
B	9700.40	Base Plate - 20" x 30"

HYDRAULIC DRIVE COMPONENTS



A



B



C



D

	Model	Description
A	OMP-50	HD Hydraulic Gear Motor. 2-Bolt A-mount Flange, 1/2" FPT Top Ports. 1" Solid Keyed Shaft. 8.0 GPM. 1000 PSI Max.
A	OMP-100	HD Hydraulic Gear Motor. 2-Bolt A-mount Flange, 1/2" FPT Top Ports. 1" Solid Keyed Shaft. 14.0 GPM. 1800 PSI Max.
B	4155.00	Hyd. Motor Mounting Kit. Fits DELTA-70/100
B	4155.01	Hyd. Motor Mounting Kit. Fits ZETA-40/85/120, KAPPA-55
C	4191.00	Hyd. Motor Mounting Kit. Fits GAMMA-62/CC, GAMMA105/CC
D	4155.03	Hyd. Motor Mounting Kit. Fits ZETA-120/C, ZETA-140/C
	4205.00	Hyd. Motor Mounting Kit. Fits KAPPA-25/32, DELTA-40
	4206.00	Hyd. Motor Mounting Kit. Fits KAPPA-43



Used to Drive 540 RPM Male Shaft Pumps with 6:1 Gear Reduced Gas Engines.

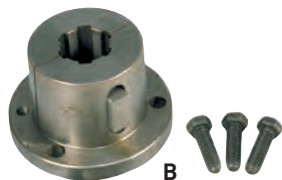
CHAIN COUPLERS

Model	Description
CD5/8X3/4	Chain Coupler - 5/8" Female x 3/4" Female
CD15/16X3/4	Chain Coupler - 15/16" Female x 3/4" Female
CD3/4X1	Chain Coupler - 3/4" Female x 1" Female
CD1X1	Chain Coupler - 1" Female x 1" Female
CD1-3/8X1	Chain Coupler - 1-3/8" 6-Spline Female x 1" Female
CD1-3/8X1-3/8	Chain Coupler - 1-3/8" 6-Spline Female x 1-3/8" 6-Spline Female
CD25X25	Chain Coupler - 25mm Female x 25mm Female

BELT DRIVE BUSHINGS & MISC



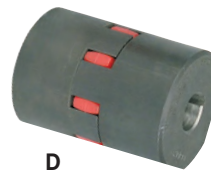
A



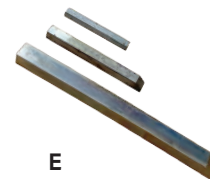
B



C



D



E

	Model	Description
A	10H6	1-3/8", 6-Spline H-Bushing for Pulley Driving Pumps with 6-Spline Male PTO Shaft. 2 Groove Max
A	10H24	24 mm H-Bushing for Pulley Driving Pumps with 24 mm Solid Shaft
A	10H25	25 mm H-Bushing for Pulley Driving Pumps with 25 mm Solid Shaft
A	10H30	30 mm H-Bushing for Pulley Driving Pumps with 30 mm Solid Shaft
A	10H35	35 mm H-Bushing for Pulley Driving Pumps with 35 mm Solid Shaft
B	10Q1	1-3/8", 6-Spline Q-Bushing for Pulley Driving GAMMA & GAMMA-B Pumps. 3 Groove Max
B	10Q130	30 mm Q-Bushing for Pulley Driving NK Series Pumps. 4 Groove Max
B	10Q135	35 mm Q-Bushing for Pulley Driving PENTA, NX AND VX Series Pumps. 4 Groove Max
C	10Q2	1-3/8", 6-Spline Q-Bushing for Pulley Driving GAMMA & GAMMA-B Pumps. 5 Groove Max
D	0632.15	Coupler Set. 1-3/8", 6-Spline Female x 1-1/4" Female. For Driving Pumps w/ Hydraulic motors or Truck PTO's
E	6914.83	1/4" x 2-1/4" Heat Treated Engine Key for use on 8 - 35 HP Gas Engines
E	6914.84	3/8" x 4-7/8" Heat Treated Engine Key
E	6921.91	3/16" x 1-3/4" Heat Treated Engine Key for use on 2.5 - 6.5 HP Gas Engines

POLYPROPYLENE INLET FILTERS



A



B

	Model	Description
A	UD1-16	Inlet Filter. 16 Mesh. 1" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
A	UD1-32	Inlet Filter. 32 Mesh. 1" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
B	UD1-1/4-16	Inlet Filter. 16 Mesh. 1-1/4" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
B	UD1-1/4-32	Inlet Filter. 32 Mesh. 1-1/4" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
B	UD1-1/2-16	Inlet Filter. 16 Mesh. 1-1/2" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
B	UD1-1/2-32	Inlet Filter. 32 Mesh. 1-1/2" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
-	3260.01	Replacement 16 Mesh Screen for 1-1/4" & 1-1/2" Filters
-	3260.03	Replacement 16 Mesh Screen for 1" Filters
-	3260.02	Replacement 32 Mesh Screen for 1-1/4" & 1-1/2" Filters
-	3260.04	Replacement 32 Mesh Screen for 1" Filters

HIGH PRESSURE FILTERS

High pressure, self cleaning strainer features brass construction, (2) 3/4" FNPT inlet & (2) 3/4" FNPT outlet ports. 40 mesh reinforced stainless screen is standard. 9" L including flush valve. 3" Diameter. Has mounting bracket with two 3/8" holes. 40 GPM Max. 1000 PSI Max.



C

	Model	Description
C	144.504.6	Discharge Filter. 40 Mesh. 3/4" FNPT Ports
-	144.203.11	Replacement High Pressure Filter Screen
-	219P12	3/4" MNPT Allen Plug
-	209P12/8	3/4" MNPT x 1/2" FNPT Reducer Bushing

PRESSURE GAUGES



Model	Description
GG350	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 350 PSI Max.
GG350BM	Gauge, Stainless Steel Case, Glycerin Filled. Back Mount, 350 PSI Max.
GG1000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 1000 PSI Max.
GG1000BM	Gauge, Stainless Steel Case, Glycerin Filled. Back Mount, 1000 PSI Max.
GG1500	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 1500 PSI Max.
GG3000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 3000 PSI Max.
GG4000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 4000 PSI Max.

VENTURI AGITATORS



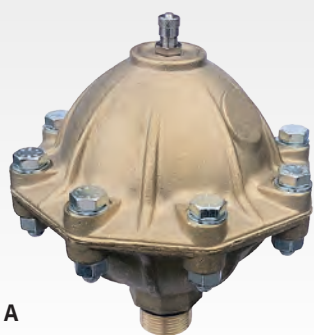
A



B

	Model	GPM	l/min	PSI	bar	Description
A	0016.04	8.0	30	400	30	High Pressure Polypropylene Venturi Agitator. 3.0 mm Stainless Steel Orifice. 1/2" MPT Inlet. Venturi Action Triples Agitation Flow.
B	163.1.2	3.5	13	700	50	High Pressure Brass Venturi Agitator. 1.8 mm Ceramic Orifice. 1/2" MPT Inlet. Venturi Action Triples Agitation Flow.

PULSATION DAMPENERS



A



B



C

	Model	GPM	l/min	PSI	bar	Description
A	6031.02	52.0	200	850	60	Pulsation Damper, Brass. 3/4" Male BSP Inlet
B	6031.29	40.0	150	400	30	Pulsation Damper, Anodized Aluminum. 3/4" Male BSP Inlet
C	6031.30	50.0	190	725	50	Pulsation Damper, Anodized Aluminum. 3/4" Male BSP Inlet



POP-OFF VALVES

High Pressure Pop-Off Valves to Protect System Against Over-Pressurization

Model	GPM	l/min	PSI	bar	Relief PSI	bar	Description
0637.08	25.0	95	600	40	720	50	Safety Pop-Off kValve. 3/8" MPT Inlet. 1/2" Hosebarb Outlet
0637.12	50.0	190	750	51	850	58	Safety Pop-Off kValve. 1/2" MPT Inlet. 3/4" Hosebarb Outlet

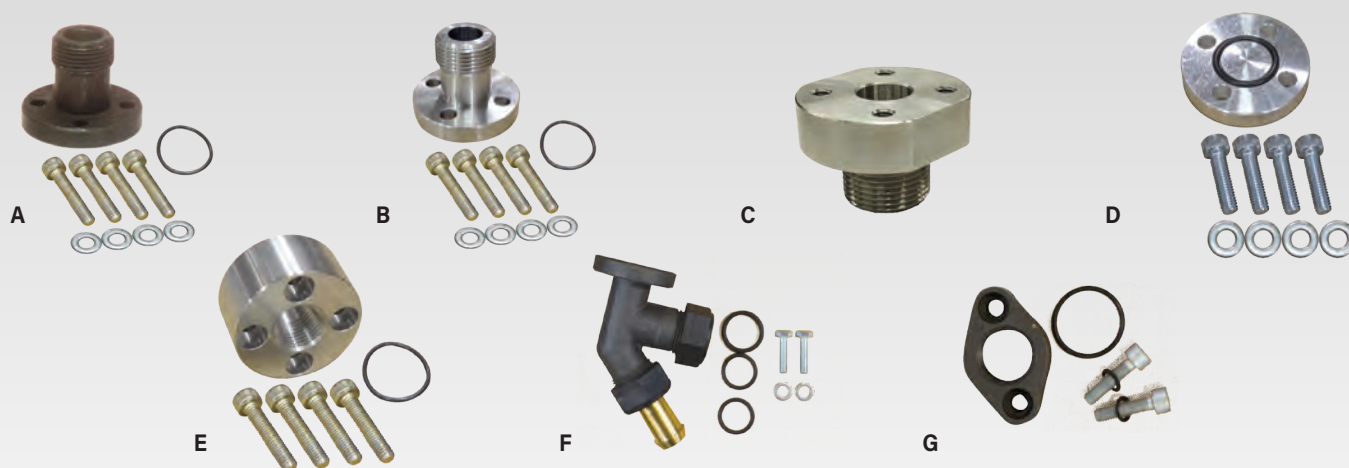


PUMP SAVER VALVE

Diaphragm Pump Saver Valve is mounted on a T-fitting between the inlet fitting on the pump & the filter or ball valve on the intake line, to relieve excess intake vacuum due to a closed ball valve or plugged filter, preventing premature failure of the diaphragms. Brass body, stainless steel spring, polypropylene piston & Viton o-ring.

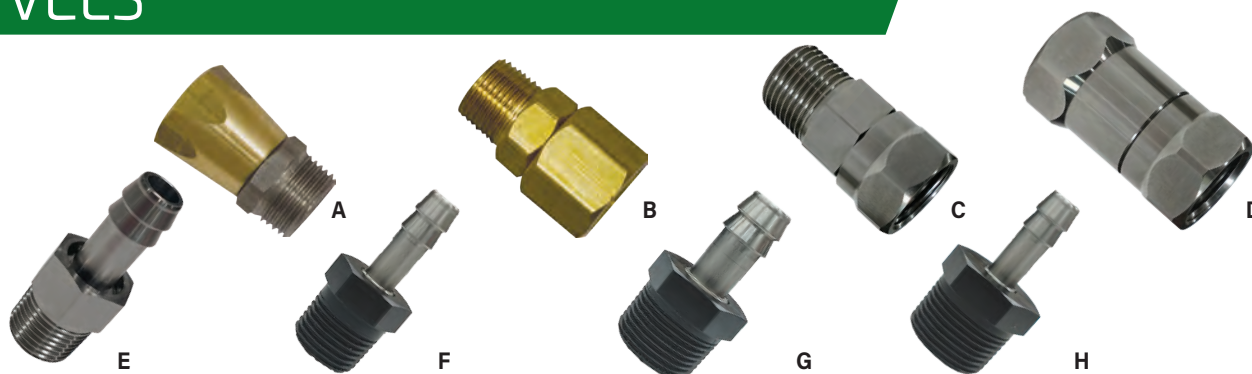
Model	Description
9500.00	Diaphragm Pump Saver Valve. 3/4" MPT Inlet. Vacuum Adjustment Range 1-12" VAC

FITTINGS & ADAPTERS



	Model	Description
A	0508.03K	3/4" Discharge Adapter Kit / Anodized Aluminum
B	0508.03KSS	3/4" Discharge Adapter Kit / Stainless Steel
C	0508.10	Stainless steel 3/4" MPT adapter to mount 6010.95 & 6010.96 control unit on ZETA 40/85 pumps
D	0508.12K	Block-off Plate Kit
E	0508.15K	1/2" Female Discharge Port Adapter Kit
F	8704.07	Discharge Port Kit
G	8704.29	Outlet Adapter - 1/2"

SWIVELS



	Model	Description
A	26.1502.45	Brass Swivel. 1/2" FBSP x 1/2" MBSP. Fits Std & Ind Turbo Gun. Max. 1000 PSI
B	9016F6M	Brass Swivel. 3/8" FNPT x 3/8" MNPT. 1000 PSI
B	9018F8M	Brass Steel Swivel. 1/2" FNPT x 1/2" MNPT. 1000 PSI
C	9028F8M	Stainless Steel Swivel. 1/2" FNPT x 1/2" MNPT. 1000 PSI
C	9028F8M/T	Stainless Steel Swivel. 1/2" Female BSP x 1/2" MNPT for 7.901.103 & 13.901.151. 1000 PSI
D	9028F8F	Stainless Steel Swivel. 1/2" FN{T x 1/2" FNPT 1000 PSI
D	9028F8F/T	Stainless Steel Swivel. 1/2" Female BSP x 1/2" FNPT for 7.901.103 & 13.901.151. 1000 PSI
E	7016.00	Stainless Steel Hose Barb Swivel. 1/2" MNPT x 1/2" Hose Barb. Max. 350 PSI
F	7016.01	Stainless Steel & POM Resin Hose Barb Swivel. 1/2" MNPT x 3/8" Hose Barb. Max. 350 PSI
G	7016.02	Stainless Steel & POM Resin Hose Barb Swivel. 3/4" MNPT x 1/2" Hose Barb. Max. 350 PSI
H	7016.03	Stainless Steel & POM Resin Hose Barb Swivel. 3/4" MNPT x 3/8" Hose Barb. Max. 350 PSI

PIPE FITTINGS



Model	Description
A 207P8 Brass	1/2" Female BSP x 1/2" FNPT. Can be used as a discharge port on KAPPA-7/15/18 or IOTA-17/18/20
B 207P12/8 Brass	1/2" Female BSP x 3/4" FNPT. Can be used as a 3/4" FNPT inlet on UDOR high performance spray guns
C 207P12/90 Brass	3/4" Female BSP x 3/4" FNPT Elbow. Installs on 3/4" Male BSP port on 6010.24, 6010.93, 6010.95 and 6047.06 control units to provide 3/4" FNPT discharge port.
D 207P12 Brass	3/4" Female BSP x 3/4" FNPT Coupler. Installs on 3/4" Male BSP port on 6010.24, 6010.93, 6010.95 and 6047.06 control units to provide 3/4" FNPT discharge port.
E 207P14 Brass	1-1/4" Female BSP x 1-1/4" FNPT Elbow. Installs on 1-1/4" Male BSP port on KAPPA-43/55 and DELTA 40/75 pumps to provide 1-1/4" FNPT discharge port
F 207P16 Brass	1-1/2" Female BSP x 1-1/2" FNPT Elbow. Installs on DELTA-100, KAPPA-121/151, BETA110/150/200/240 & OMEGA140/170 pumps to provide 1-1/2" FNPT discharge port
G 207P12/40 Steel	1" Female BSP x 3/4" FNPT. Installs on 1" Male BSP discharge port on ZETA-120/140 pumps to provide 3/4" FNPT discharge port.
H 207P12/1 Steel	3/4" FNPT Tee. Can be used as a discharge port on KAPPA-121/GR & KAPPS/151/CC pumps
I 207P12/2 Steel	3/4" MNPT x 3/4" FNPT x 3/4" Female BSP Tee. Can be used as a discharge port on KAPPA-121/CC & KAPPA/151/CC pumps
J 207P12/3 Steel	3/4" FNPT x 3/4" FNPT x 3/4" Female BSP Tee. Installs on 3/4" Male BSP port on 6010.24, 6010.93, 6010.95 and 6047.06 control units to provide multiple 3/4" FNPT discharge ports.
K 207P14/3 Steel	3/4" FNPT x 3/4" FNPT x 1" Female BSP Tee. Installs on 1" Male BSP port on ZETA120/140 pumps to provide multiple 3/4" FNPT discharge ports.



UDOR LUBE

SAE 40W non-detergent lubricant. Specially formulated for use in UDOR diaphragm and plunger pumps.

- Non-Detergent. Non-Foaming
- Rust Inhibitors
- Anti-wear Agents
- Resists Breakdown Due to Oxidation
- Synthetic Oil Recommended for Cold Weather Uses Including De-Icing and Brine Application.

Model	Description
15.5823	UDOR LUBE - 1 Quart Bottle
15.5823S	UDOR LUBE - Synthetic / Low Temp - 1 Quart Bottle

UDOR USA SALES POLICY

UDOR USA reserves the right to refuse to conduct business with any company that is not in good credit standing or that is not determined to be a qualified equipment manufacturer, wholesaler or distributor.

SHIPPING STOCK ORDERS

All orders will be shipped by UPS, FedEx, USPS and International we use DHL. For LTL truck orders all shipping is Prepaid and Add (PPA). Customer may specify LTL carrier on purchase order.

ORDER PROCEDURE

To place orders please submit your purchase orders via email to sales@udorusa.com or via fax to 800-732-2670. To call in your orders or for general questions, please call us at 651-785-0666 between 8 a.m. & 5 p.m. Central Time.

MINIMUM ORDER

UDOR USA has a minimum order required amount of \$25.00 USD, which may include Drop Ship Charge.

DROP SHIPS

UDOR USA will drop ship directly to your customer for a \$15.00 drop ship service fee per order.

OPEN CREDIT TERMS & CONDITIONS

Our standard term is Net 30 days. Once approved UDOR USA will send an approval letter which specifies account number and credit limit.

FORMS OF PAYMENT

For approved Net 30 terms UDOR USA will accept Checks, ACH, Wire, Credit Cards, Virtual CC payments and Cash. Credit Cards Udor USA accepts are Visa, Master Card, Discover Card and American Express. Special Processes and fees are required for Discover and American Express. If paid via Credit Card, there may be an additional 3% charge for processing fees.

PAST DUE INVOICES

Receiving open credit terms from UDOR USA is a result of good faith and your ability to meet payment terms. Our system generates an invoice the day your product is shipped. Invoice(s) are considered past due 1 day after your specific terms that were agreed upon, unless otherwise specified by UDOR USA. Past due invoices can be subject to late fees and interest.

RETURNED CHECKS

Bank Returned Payments formerly known as NSF. Electronic or Paper
A \$36.00 or current NSF charge the bank charges for returned checks (electronic or paper) will be added to your account. We will notify Accounts Payable Dept. to resolve payment issue.

REFER TO THE PROPER PUMP BREAKDOWN AND DIAPHRAGM PUMP SERVICE GUIDE BEFORE PERFORMING ANY MAINTENANCE OR SERVICING OF THE PUMP. www.udorusa.com

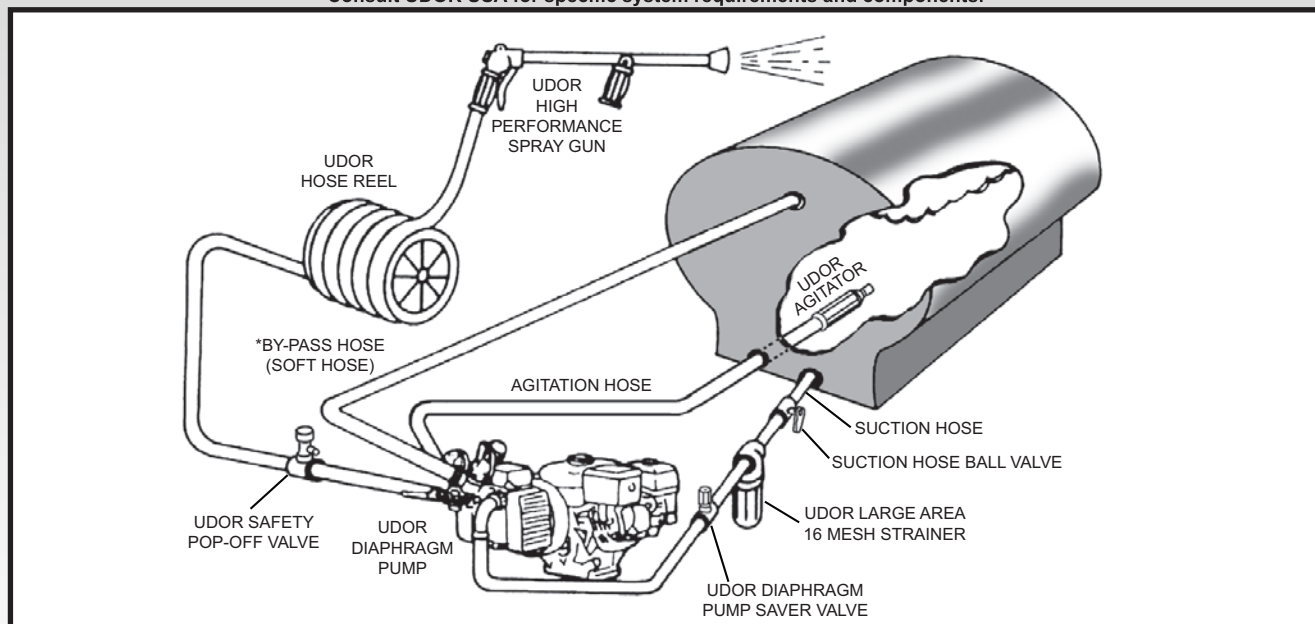
UDOR diaphragm and plunger pumps “pump volume”, not pressure.
The pressure is determined by adjusting the pressure regulating valve
and selecting the proper orifice size of spray nozzle or nozzles.

NEVER run any UDOR diaphragm pump without a pressure regulating valve
installed on the pump or in the discharge plumbing.

PROBLEM	CAUSE	REMEDY
• NO PRESSURE • VERY LITTLE PRESSURE • PRESSURE DROPS BELOW WORKING RANGE WHEN RELIEF VALVE IS OPEN TO BOOM OR GUN	1) Plugged filter* restricting flow 2) Suction hose obstruction 3) Collapsed suction hose inside or outside tank restricting flow 4) Pump drawing air through suction line hoses or fittings 5) Pressure relief valve stuck or worn 6) Excessive tank foam due to low tank volume 7) Nozzle volume is greater than pump capacity 8) One or more pump valves / check valves seating improperly	• Clean filter screen • Clear obstruction • Replace collapsed hose • Examine hoses and fittings, ensure air tight fit and no leaks • Repair or replace relief valve • Refill tank • Reduce nozzle orifice size or number of nozzles used • Clean or replace pump valves / check valves
• PRESSURE GAUGE FLUCTUATES WILDLY • EXCESSIVE PULSATION	1) Pulsation dampener pressure too low or too high 2) Pump drawing air through suction line hoses or fittings 3) Plugged filter* restricting flow 4) Air not entirely evacuated from pump cavity	• Adjust pulsation dampener pressure (Refer to pulsation dampener setting on Pump Operation Sheet) • Examine hoses and fittings, ensure air tight fit and no leaks • Clean filter screen • Run pump with an open discharge to totally evacuate air
• PUMP DOES NOT DRAW WATER	1) Pump drawing air through suction line hoses or fittings 2) Plugged filter* restricting flow 3) One or more pump valves / check valves seating improperly	• Examine hoses and fittings, ensure air tight fit and no leaks • Clean filter screen • Clean or replace pump valves / check valves
• PUMP OIL HAS MILKY COLOR OR OIL PLUG POPS OUT	1) One or more diaphragms have ruptured	• Replace all diaphragms • Clean filter screen
* NOTE - Only use filter screens that are between 10 & 20 mesh. Never use a fine filter screen on the inlet side of a diaphragm pump.		

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.

These are basic tank feed plumbing diagrams and are not recommended for all systems.
Consult UDOR USA for specific system requirements and components.



NOTE: All plumbing accessories should be the same or greater diameter as the feed line. All ball valves should be full port valves only.

On any tank feed system each pump must be fed by its own separate feed line only. Never feed multiple pumps with one common feed line.

FEED TANK SIZE: A recommended minimum feed tank size is 6-10 times the maximum GPM output rating of the pump or pumps being used.

SAMPLE: 10 GPM PUMP x 6 = 60 GALLON MINIMUM FEED TANK SIZE.

USE BLUE THREADLOCKER OR EQUIVALENT ON ALL PLUMBING COMPONENTS, FITTINGS AND ACCESSORIES.

WARNING! UDOR Diaphragm Pumps are positive displacement pumps, therefore a properly designed pressure relief valve or pressure regulating valve must be installed on the pump or in the discharge plumbing. A secondary safety relief valve is also recommended. Failure to install a pressure relief valve or pressure regulating valve could result in personal injury, property damage or damage to the pump or system and void any warranty. In no way does UDOR USA assume any liability or responsibility for the construction or operation of a customer's or potential customer's high pressure system.

* IMPORTANT

INSTRUCTIONS:

FAILURE TO FOLLOW THESE IMPORTANT INSTRUCTIONS WILL VOID ANY AND ALL WARRANTY.

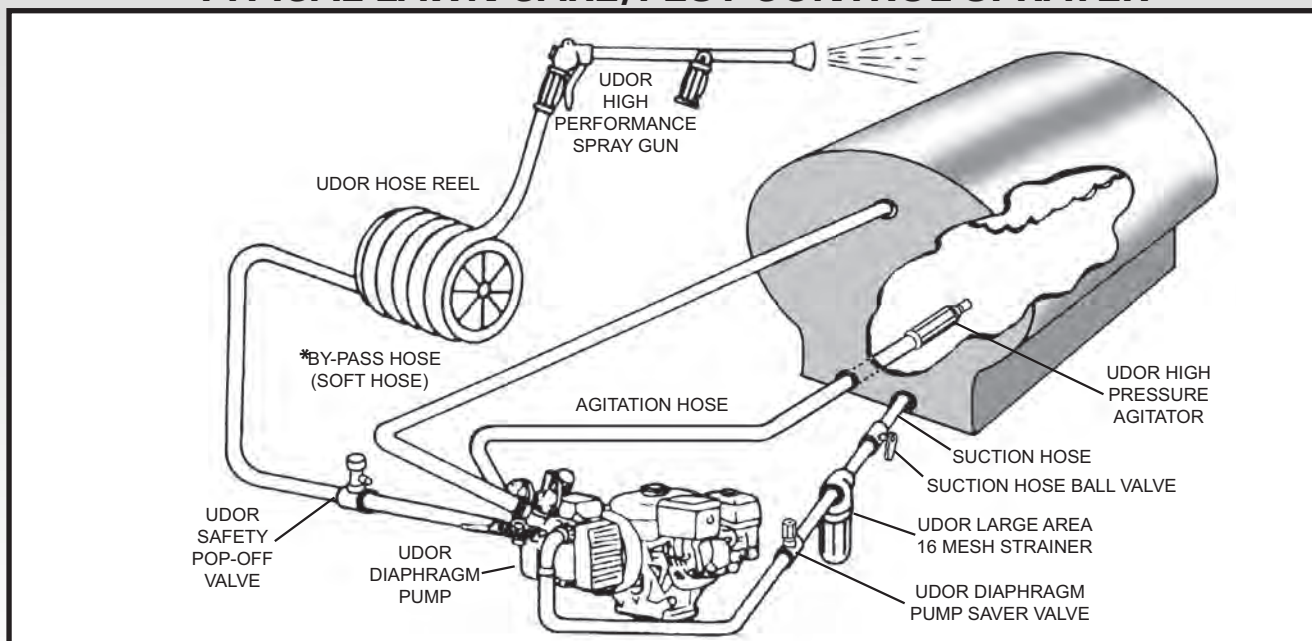
- KEEP SUCTION HOSE BALL VALVE OPEN WHENEVER SYSTEM IS BEING OPERATED.
- BY-PASS HOSE MUST BE OPEN AND UNRESTRICTED AT ALL TIMES.
- MAKE SURE ALL FEED TANKS HAVE PROPER BAFFLES AND VENTING.
- NEVER INSTALL AN AGITATOR OR BALL VALVE ON THE BY-PASS HOSE; USE SOFT HOSE ONLY.
- NEVER RUN ANY PUMP WITHOUT A PRESSURE RELIEF VALVE OR PRESSURE REGULATING VALVE INSTALLED.
- ALWAYS KEEP THE BY-PASS LINE AS FAR AWAY AS POSSIBLE FROM THE SUCTION HOSE LINE TO PREVENT AIREATION OR CAVITATION OF THE FLUID BEING PUMPED.
- ONLY USE FILTER SCREENS THAT ARE BETWEEN 10 & 20 MESH ON THE INLET SIDE OF THE PUMP. NEVER USE A FINE FILTER SCREEN ON THE INLET SIDE OF A DIAPHRAGM PUMP.

NOTE: Protect the pump and system from freezing. If freezing conditions exist, flush the pump, all hoses and complete system with a 50/50 mixture of anti-freeze and water. ** DO NOT RUN PUMP WITH FROZEN FLUID **

WARNING! DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.

****SEE NEXT PAGE FOR MORE PLUMBING DIAGRAMS****

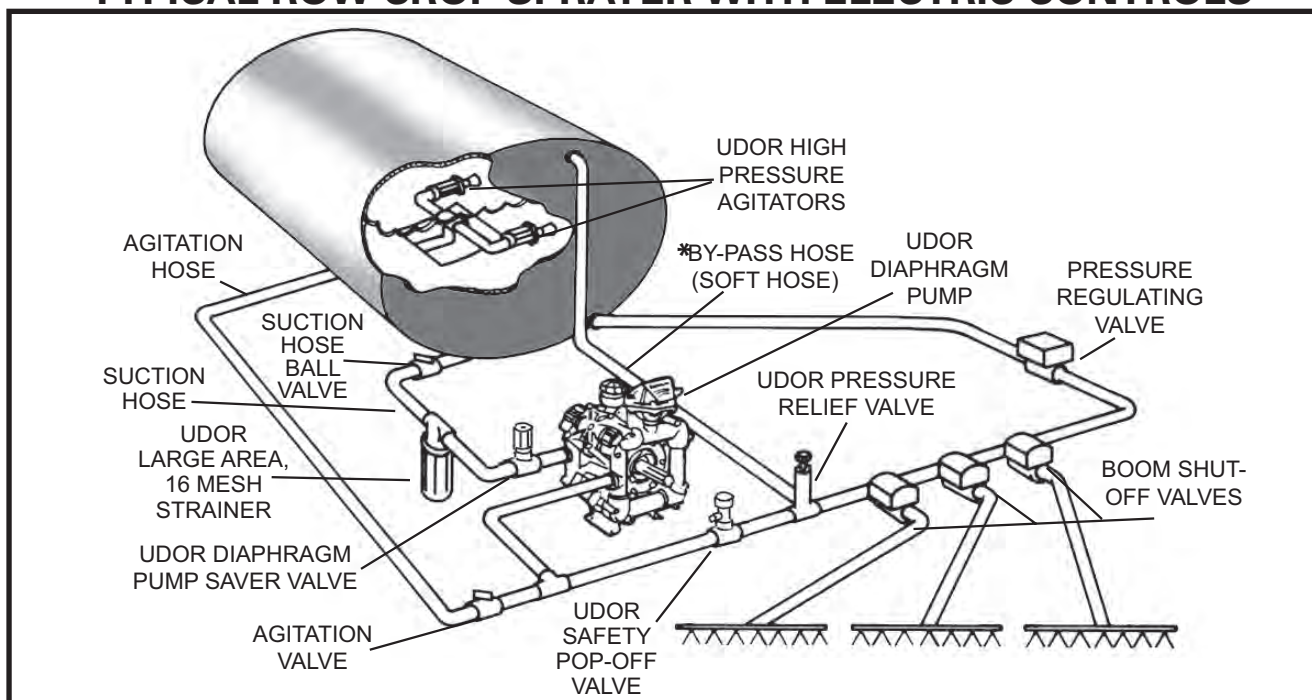
BASIC DIAPHRAGM PUMP PLUMBING DIAGRAM FOR A TYPICAL LAWN CARE/PEST CONTROL SPRAYER



By-pass hoses must be open and unrestricted at all times. Never install an agitator on the by-pass line.

These are basic tank feed plumbing diagrams and are not recommended for all systems. Consult UDOR USA for specific system requirements and components.

BASIC DIAPHRAGM PUMP PLUMBING DIAGRAM FOR A TYPICAL ROW CROP SPRAYER WITH ELECTRIC CONTROLS



By-pass hoses must be open and unrestricted at all times. Never install an agitator on the by-pass line.

**CAREFULLY READ AND FOLLOW THESE INSTRUCTIONS BEFORE OPERATING YOUR UDOR PUMP.
FAILURE TO FOLLOW THESE INSTRUCTIONS MAY DAMAGE PUMP AND VOID WARRANTY.**

WARNING!: UDOR Diaphragm Pumps are positive displacement pumps, therefore a properly designed pressure relief valve or pressure regulating valve must be installed on the pump or in the discharge plumbing. A secondary safety relief valve is also recommended. Failure to install a pressure relief valve or pressure regulating valve could result in personal injury, property damage or damage to the pump or system and void any warranty. In no way does UDOR USA assume any liability or responsibility for the construction or operation of a customer's or potential customer's high pressure system.

**REFER TO THE PROPER PUMP BREAKDOWN AND DIAPHRAGM PUMP SERVICE GUIDE
BEFORE PERFORMING ANY MAINTENANCE OR SERVICING OF THE PUMP. www.udorusa.com**

1. HOW THE PUMP WORKS (The diaphragm is what separates the pump oil from the spray material.)

Each piston DOWNSTROKE lowers the piston-attached diaphragm, drawing spray material into pump head. As the piston passes below cylinder sleeve side openings, oil is pulled into lower diaphragm cavity. During each piston UPSTROKE the cushion of oil between the piston and the diaphragm hydraulically pushes and cushions the diaphragm as the piston tops out. This discharges the fluid in the pump head. The lower diaphragm cavity oil cushion also lubricates the diaphragm and piston ensuring minimal mechanical wear. REMEMBER: low oil level causes excessive mechanical wear on diaphragms and internal components. The transparent oil sight gauge makes oil checks easy. Keep filled to mark on sight gauge.

2. PRESSURE REGULATING VALVE

A proper pressure regulating valve directs the fluid in your system and also provides a by-pass or return feature for the fluid to travel when the discharge flow of the pump is shut off. Never run any UDOR Diaphragm Pump without a pressure regulating valve installed on the pump or in the discharge plumbing. Always start the pump with the pressure regulating valve in full by-pass or with minimal spring tension on the pressure adjustment knob or handle.

3. BEFORE OPERATING SYSTEM

Open suction valve and check tightness of suction lines, fittings and filter.

4. DO NOT RUN PUMP WITH A STARVED SUCTION

The diaphragm pump will not suffer if run dry due to an empty tank. However, a "starved" suction due to a clogged strainer or a closed suction valve will cause premature failure of the pump diaphragms. NOTE: Only use filter screens that are between 10 & 20 mesh. Never use a fine filter screen on the inlet side of a diaphragm pump.

5. SUCTION VALVE (To prevent pump damage, shut down system before closing suction valve.)

This valve is in the system to close off tank flow for emergency system repair or if strainer screen requires unexpected cleaning after a tank refill. (Strainer screen should be cleaned just before each tank refill.)

6. MAINTAIN PROPER OIL LEVEL

The crankcase oil plays a dual role. It lubricates all moving parts and is hydraulically functional in the pumping capacity. Oil supports the diaphragm during each pressure stroke. It is important to maintain the recommended oil level, marked on the oil sight gauge. Only use UDOR LUBE premium pump oil. For any pump with a gear reduction, make sure the gear box is filled to the center of the sight glass or to the level plug with 90 wt. gear lube before operating.

7. PUMP VALVES OR CHECK VALVES

Every UDOR Diaphragm Pump has two valves per cylinder or head assembly. One valve lets fluid "IN" each head assembly (suction) and the other valve lets fluid "OUT" of each head assembly (discharge). Pay very close attention to valve placement when reinstalling the head assemblies during diaphragm replacements, pump maintenance or when servicing the pump.

8. PRESSURE GAUGE

Install pressure gauge as close as possible to the outlet or discharge of the pump, or on the high pressure manifold. This is extremely important for adjusting pressure regulating devices and for proper sizing of nozzle or restricting orifice. The pump is rated for a maximum pressure, which should be read at the pump only, not at the gun or nozzle.

9. DO NOT OVER SPEED PUMP

UDOR diaphragm pumps are designed to operate at or below a specific RPM. Over speeding will cause valves and diaphragms to prematurely fail and could cause other internal damage. Refer to the performance chart of your specific pump for maximum operating RPM. Most UDOR Diaphragm Pumps are rated at 540 RPM max.

10. PULSATION DAMPENER INTRODUCTION

It is the nature of diaphragm pumps to have some pulsation. This is caused by sudden changes in piston direction. The pulsation dampener has one function in the pumping system: to reduce pulsation by providing a cushion of air to bump against. The UDOR pulsation dampener uses a rubber bladder to separate the air cushion from the solution being pumped.

11. PULSATION DAMPENER SETTING

The basic rule is to fill the pulsation dampener to twenty percent (20%) of the system working pressure. If you have your spraying pressure set at 100 psi, the setting for the pulsation dampener should be 20 psi. Always shut down the pump before adding air to the pulsation dampener or checking its pressure. Air supply can be from a compressor or a manual type pump. The dome containing air is small. Take care to apply the pressure gauge evenly on the air valve to prevent air from leaking out of the pulsation dampener. It is not uncommon to lose 5-10 psi when checking pulsation dampener pressure. NOTE: 2-cylinder diaphragm pumps may require more air than 20% of operating pressure. 20 psi is the minimum pulsation dampener pressure. DO NOT RUN PUMP WITH LESS THAN 20 PSI IN THE PULSATION DAMPENER.

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.
PUMP OPERATIONS UDOR DIAPHRAGM PUMPS

REFER TO THE PROPER PUMP BREAKDOWN AND DIAPHRAGM PUMP SERVICE GUIDE BEFORE PERFORMING ANY MAINTENANCE OR SERVICING OF THE PUMP. www.udorusa.com

Establishing and following a maintenance schedule is a good investment.
It will add greatly to the longevity of your pump and your sprayer.

UDOR DIAPHRAGM PUMP MAINTENANCE PROCEDURES

- STEP NO. 1** "AFTER EACH USE" Flush pump with clean water. Most diaphragm "attacks" occur when chemicals are left sitting in the pump. These few minutes of cleaning are well spent, extending diaphragm life and minimizing chemical buildup throughout the system
- STEP NO. 2** "AFTER EVERY 500 HOURS OF USE OR AT SEASON'S END" (whichever comes first). Install a new set of diaphragms. Inspect pump valves / check valves for spring fatigue and seat wear. Change oil using UDOR LUBE premium pump oil or a non-detergent 30 weight oil: rotate shaft while filling. This evacuates most unwanted air pockets. Run pump for five minutes under "no-load" condition or in full by-pass only. This evacuates remaining air pockets from diaphragm cavity. Re-check oil level. *Refer to proper pump breakdown and Diaphragm Pump Service Guide before installing new diaphragms or servicing the pump.
- STEP NO. 3** "WINTER STORAGE" Perform Step 1 (above), then, with tank empty and suction and discharge valves "open," run pump one minute to ensure complete drainage of pump heads and lines. Re-circulate anti-freeze at low pressure only and leave in system to complete winterizing procedure.
- STEP NO. 4** "RE-STARTING AFTER WINTER STORAGE" Before re-starting the pump after anti-freezing, make sure to purge all anti-freeze from pump and complete system at low pressure only. Anti-freeze will foam under high pressure and can cause severe damage to the pump and pressure regulator. Failure to follow this step will void any and all warranty.
- NOTE:** Allow anti-freeze to replace any possible water in hoses and booms. If a handgun is in the system, run anti-freeze through the hose and handgun into tank lid opening to clear and/or dilute water. (Depending on the length of hose and size of tank, more than one gallon of anti-freeze may be required to protect the system from freezing). **DO NOT RUN PUMP WITH FROZEN FLUID**-

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.

1. DRAIN CRANKCASE OIL

Drain pump crankcase by removing the oil drain plug located at the bottom of the pump. Also remove the oil fill cap or plug. NOTE: On older pump models that DO NOT have the oil drain plug, oil needs to be drained after the head, diaphragm and piston sleeve have been removed. NOTE: When re-installing piston sleeves, the oil holes must always align parallel with the pump crankshaft.

2. EXTERNAL MANIFOLD REMOVAL

If your pump has external manifolds, these must be removed prior to head removal.

3. HEAD REMOVAL

Remove the head bolts, and then remove the pump heads which may require some "light" prying.

4. DIAPHRAGM REMOVAL

Turn crankshaft to bring piston up to the top of its stroke, remove the diaphragm bolt and washer, then remove the diaphragm.

5. CRANKCASE CLEANING

To properly clean the crankcase you need to remove the piston sleeves and wash the crankcase with parts washing solution or equivalent. Before re-installing the piston sleeves, apply a light coating of oil to both the pistons and sleeves. NOTE: Make sure the oil holes in the piston sleeve align parallel with the pump crankshaft.

6. INSTALLING NEW DIAPHRAGMS

Install the diaphragm bolt and washer into the new diaphragm. Install this assembly to the piston, flat side of the diaphragm down. Use blue threadlocker or equivalent on the diaphragm bolt. Then torque to the recommended specs. Now rotate crankshaft to bring the piston and diaphragm to the bottom of its stroke. Then seat the outside edge of the diaphragm into the pump body.

7. HEAD INSTALL

When reinstalling the pump heads, it is very IMPORTANT to make sure that the pump valves or check valves are installed correctly. For each cylinder or head assembly there are two valves, one valve lets fluid "IN" the head assembly (suction), the other valve lets fluid "OUT" of the head assembly (discharge). PAY VERY CLOSE ATTENTION TO THIS! Then torque pump heads to rated torque specs. WARNING: Never run any UDOR diaphragm pump with the pump valves or check valves installed incorrectly. Failure to follow this warning could result in personal injury, property damage or damage to the pump and will void any and all warranties.

8. INSTALLING PULSATION DAMPENER DIAPHRAGM

Bleed off the air in the chamber and then remove the cover bolts, cover and diaphragm. Install the new diaphragm dome down. Reinstall cover and torque to recommended specs. Recharge dampener with air to 20% of the pumps operating pressure.

9. REFILL PUMP CRANKCASE

Check the oil drain plug, making sure that it is installed in the crankcase. Fill the pump with UDOR LUBE premium pump oil or SAE 30 weight non-detergent oil to the recommended mark on the oil sight glass/gauge; about halfway on the oil sight glass/gauge. Rotate the crankshaft while filling to eliminate air pockets.

10. INITIAL START UP

Run pump for five minutes under NO Load condition or in full by-pass only. This will evacuate any remaining air pockets in the crankcase. Turn pump off and re-check oil level. Refill as necessary to proper oil level.

IMPORTANT: During initial start up, monitor the oil color. If it turns milky white, the diaphragms were not seated or installed correctly.

WARNING!: UDOR Diaphragm Pumps are positive displacement pumps, therefore a properly designed pressure relief valve or pressure regulating valve must be installed on the pump or in the discharge plumbing. A secondary safety relief valve is also recommended. Failure to install a pressure relief valve or pressure regulating valve could result in personal injury, property damage or damage to the pump or system and void any warranty. In no way does UDOR USA assume any liability or responsibility for the construction or operation of a customer's or potential customer's high pressure system.

- 1) A Return Merchandise Authorization (RMA) number is required for all products being returned for warranty evaluation, repair or credit. To obtain an RMA number, please contact UDOR USA customer service at 651-785-0666.
- 2) All products returned for credit are subject to a minimum 10 percent restocking fee based on product evaluation.
- 3) Flush pump to remove any and all chemicals. Drain all pump oil and gear lube.
- 4) The RMA number must appear on the outside of all packages being returned.
- 5) All RMA numbers will be valid for 60 days from date issued. If product is not received within 60 days a new RMA number must be issued.
- 6) Freight for return product is the responsibility of the customer; all products returned must be freight prepaid. Ship to:

UDOR USA / RETURNS
500 Apollo Drive
Lino Lakes, MN 55014

Any collect shipments or any product returned without an RMA number will be refused and returned to sender.

- 7) Any product being returned for warranty evaluation must not be disassembled. Disassembly of the product will void any and all warranties.
- 8) UDOR USA will repair or replace products qualified as defective upon inspection that are judged to be defective due to workmanship or material failure under UDOR USA limited product warranty.
- 9) Customers requiring immediate product replacement for items submitted for warranty evaluation will be invoiced at current price. Limited product warranty will apply to all return products.
- 10) Any product that has been left here past 60 days after contact from UDOR USA will become property of UDOR USA and will be properly disposed.

NOTE:

All pumps and accessories being returned to UDOR USA for repair or warranty evaluation must be flushed of any and all chemicals. This also pertains to crankcases that have contaminated oil. Any pump received that has not been properly flushed will be immediately returned to sender freight collect. This policy has been put into place to protect our personnel from possible exposure to hazardous or unknown substances.

In the course of marketing or servicing the customer or potential customer's needs, UDOR USA will use its best judgment in its product recommendations. However, the ultimate responsibility for product application decisions shall rest with the customer. The sole and only warranty made by UDOR USA is the limited warranty described below.

LIMITED PRODUCT WARRANTY **UDOR Diaphragm Pumps and Gamma Series Plunger** **Pumps & Accessories**

UDOR Diaphragm Pumps and GAMMA Series Plunger Pumps are warranted by the manufacturer to the original purchaser to be free from defects in materials and workmanship under normal use and service for a period of one (1) year.

UDOR Accessories are warranted to be free from defects in materials and workmanship under normal use and service for a period of ninety (90) days.

"Normal use and service" is defined as applications not in excess of recommended maximum speeds, pressures, temperatures or vacuums, only handling fluids which are compatible with pump or accessory materials and maintaining proper oil change intervals.

"Proper oil change intervals" for Plunger Pumps is changing PUMP OIL after the first 50 hour break-in period, and after every 500 hours of use thereafter using UDOR LUBE Premium Pump Oil and UDOR USA original equipment parts.

"Proper oil change intervals" for Diaphragm Pumps is changing pump oil and diaphragms at the end of the spraying season or after 500 hours of use, whichever comes first using UDOR LUBE Premium Pump Oil and UDOR USA original equipment parts.

This Warranty DOES NOT APPLY to freight damage, damage due to freezing, running pump dry (plunger pumps only) or improper lubrication of crankcase, normal wear of moving parts, damage due to misuse or misapplication, defects caused by the fault or negligence of the buyer or third party, or damage due to use of parts or accessories not obtained from or approved by UDOR USA.

This Warranty also does not apply to any pump or accessory which has been altered or modified to affect its performance or reliability or any pump or accessory that has been returned disassembled.

This Warranty excludes "normal wear items" such as elastomers, diaphragms, seals and valves.

All pumps and accessories being returned to UDOR USA for repair or warranty evaluation must be flushed of any and all chemicals. This also pertains to crankcases that have contaminated oil. Any pump received that has not been properly flushed will be immediately returned to sender freight collect. This policy has been put into place to protect our personnel from possible exposure to hazardous or unknown substances.

All warranty evaluation returns must be accompanied by the original purchase invoice and a RMA number. If invoice is not included, UDOR USA will determine warranty by manufacturer's serial number and date of manufacture on the pump label. Any collect shipments or any product returned without a RMA number will be refused and returned to sender.

UDOR USA's obligation under this warranty is limited to repair or replacement of product in question, at UDOR's option, upon return of the product, freight prepaid, to UDOR USA. UDOR USA agrees to be responsible for return shipping costs ONLY on any approved warranty repair or replacement product via ground transportation ONLY. This warranty is in lieu of all other warranties expressed or implied, including any warranty of merchantability and any warranty of fitness for a particular purpose.

IN NO EVENT SHALL UDOR USA BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES OF ANY KIND. This includes lost income, travel time and expenses, lodging expenses, labor expenses, down time, shipping costs and any other INCIDENTAL or CONSEQUENTIAL damages or expenses.

The only and total liability of UDOR USA under this limited warranty or in any claim regarding or involving UDOR USA is expressly limited to the repair, replacement or purchase price of the product.

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS.

DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE.

FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.

This Warranty supersedes any and all previous Warranties.

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