



UDOR[®]
USA

World Leader in Diaphragm and Plunger Pumps



Fire Fighting Equipment & Applications
Diaphragm Pumps, Plunger Pumps and Accessories



Diaphragm Pump Fire Fighting Applications

- Controlled/Prescribed Burns
- Hot Spot Suppression.
- Wildland Fires
- Forest Fires
- Quick Response
- Foam Application
- Brush Trucks
- First Alert



Low Pressure Diaphragm Pumps

Low pressure diaphragm pumps feature two, three, four or six diaphragm configurations.

Flow rates from 4.8 - 106 GPM and pressures up to 300 PSI.

Popular pumps for fire fighting applications include **IOTA 25** and **ZETA 120** models.

Models are also available for aggressive fluid, lawn care, aircraft de-icing, hydrostatic testing and cleaning applications.

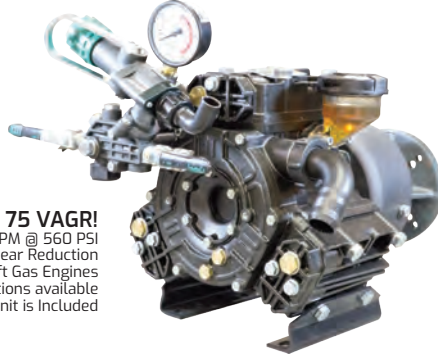
IOTA 25 GR3/4
7.0 GPM @ 300 PSI
Shown with Gear Reduction for
3/4" Shaft Gas Engines
Other drive options available
Regulator / Control Unit is Included



ZETA 120 VAGR1
31.0 GPM @ 300 PSI
Shown with Gear Reduction for
1" Shaft Gas Engines
Other drive options available



KAPPA 25 GR3/4
7.0 GPM @ 300 PSI
Shown with Gear Reduction for
3/4" Shaft Gas Engines
Other drive options available
Regulator / Control Unit is Included



DELTA 75 VAGR1
20.0 GPM @ 560 PSI
Shown with Gear Reduction
for 1" Shaft Gas Engines
Other drive options available
Regulator / Control Unit is Included

Medium Pressure Diaphragm Pumps

Medium pressure diaphragm pumps feature two, three, four or five diaphragm configurations.

Flow rates from 2.0 - 34 GPM and pressures up to 560 PSI.

Popular pumps for fire fighting applications include **KAPPA 25** and **DELTA 75** models.

These pumps are also excellent choices for lawn care, aircraft de-icing, hydrostatic testing and cleaning applications.

High Pressure Diaphragm Pumps

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.

Simplicity of design and common parts allow for easy and economical maintenance.

Popular pumps include **DELTA 170**, **OMEGA 170** and **BETA 240** models.

Models are also available for orchard spraying, fire fighting, misting and pest control applications.

DELTA 140 GR1
46.0 GPM @ 725 PSI
Shown with
1-3/8" 6-Spline Male PTO Thru Shaft
Regulator / Control Unit is Included



BETA 240 TS2C
64.0 GPM @ 725 PSI
Shown with
1-3/8" 6-Spline Male PTO Thru Shaft
Regulator / Control Unit is Included



SPRAY GUNS

UHP Foam Spray Guns

Designed for UHP foam injection fire fighting. 13 or 25 GPM models. Up to 3000 PSI



Turbine & Long Range Spray Guns

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

25 GPM (Turbine) or 30 GPM (Long Range). Up to 850 PSI



Turbo, Turbine & Long Range Spray Guns feature adjustable spray pattern from a straight stream to a fine cone mist.



Turbo Spray Guns

15 GPM. Up to 850 PSI.



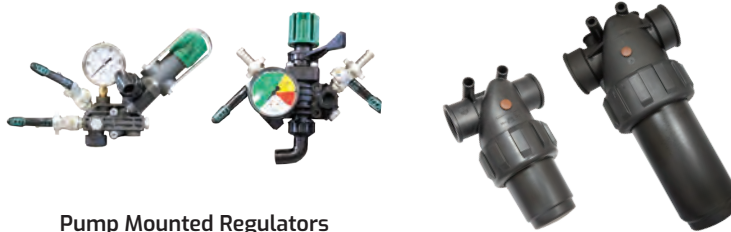
BOOMINATOR® NOZZLES

An **UDOR** Brand
BOOMINATOR
BOOMLESS SPRAY NOZZLES

Made in the USA. Designed to save time and money both in equipment assembly and operation.



MORE ACCESSORIES



Pump Mounted Regulators

- | | |
|--|--|
| 6010.24
27.0 GPM @ 560 PSI
Pump Mounted
1/2" Hose Barb Outlet (2)
3/4" Hose Barb Bypass | 6010.95
27.0 GPM @ 350 PSI
Pump Mounted
1/2" Hose Barb Outlet (2)
3/4" Hose Barb Bypass |
|--|--|

POLYPROPYLENE INLET FILTERS

- 1", 1-1/4" and 1-1/2" Models
- 32 Mesh - for Plunger Pumps
- 16 Mesh - for Diaphragm Pumps



UDOR LUBE / UDOR LUBE SYNTHETIC

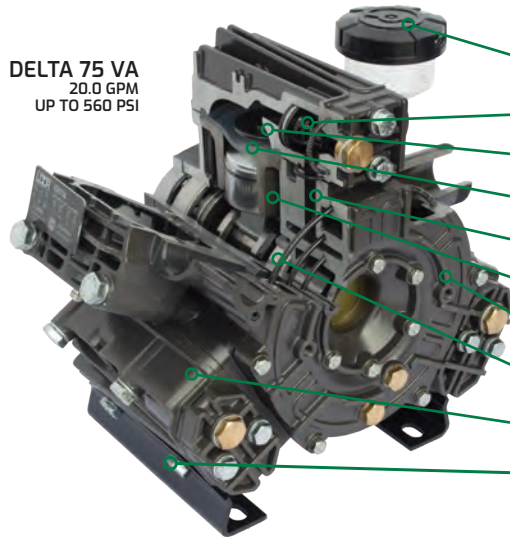
SAE 40W non-detergent lubricant. Specially formulated for use in Udor diaphragm & plunger pumps.

- Non-Detergent. Non-Foaming
- Rust Inhibitors
- Anti-wear Agents
- Resists Breakdown Due to Oxidation
- Synthetic Oil Recommended for Cold Weather Uses

Diaphragm Pump Features

Why Diaphragm Pumps..? Advantages of Diaphragm Pumps vs. Roller or Centrifugal Pumps

- **Run Dry without Damage:** With an open plumbing circuit a diaphragm pump can run dry without damage.
- **Self-Priming:** Diaphragm pumps can draw fluid safely operating at a maximum of 7.0" Hg.
- **Fluid Compatibility:** Diaphragm pumps can be used with suspended solids and other corrosive chemicals.
- **Positive Displacement:** Diaphragm pumps offer a consistent flow rate for accurate calibration of chemicals.
- **Fluid Temperature:** Diaphragm pumps can handle up to 140° F fluid temperatures.



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

UHP Fire Fighting

UHP as the future of Firefighting

The firefighting industry is gradually starting to adopt UHP systems because of their increased efficiency over the traditional high-volume, low-pressure pumps. When suppressing a fire, an adequate firefighting stream must be able to produce enough water to extinguish the fire as fast as possible and get to the target with high speed. Considering these two factors, Ultra-High-Pressure pumps can change the outcome of a crucial situation.

Lower Water Consumption

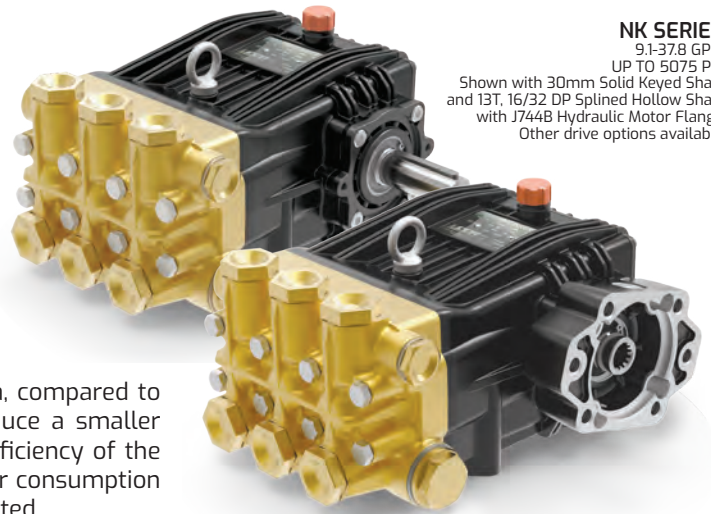
UHP streams allow nearly 90% of the water to reach the target area, compared to only 20% in traditional fire fighting applications. UHP systems produce a smaller water droplet which allows greater coverage with less water. The efficiency of the UHP over the high-volume, low-pressure system greatly reduces water consumption which is critical in remote applications or when water availability is limited.

Cooling Mist

UHP streams create the condition for the water to evaporate after hitting the target. This mist works as a coolant that helps the firefighters to deal with the high temperatures generated by the fire, especially in wildfire and forest fire applications.

UDOR UHP Options

As a leader for quality in the pumps industry, UDOR USA can provide the plunger pumps needed for different UHP systems, creating the adequate water streams. Most UHP systems provide 5-20 GPM at 1000 - 2000 psi, UDOR USA offers a range of pumps to fit many UHP applications.



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