



**UDOR**<sup>®</sup>  
**USA**

*World Leader in Diaphragm and Plunger Pumps*



**Sewer Cleaning & Hydro Excavating Applications**  
**Plunger Pumps and Accessories**

## Pumps for Sewer Cleaning & Hydro-Excavating Applications

High-pressure plunger pumps are a critical component to hydro-excavating. They need to perform in a wide range of environments from frozen municipal sewer or water line repairs to soil removal for piling or trench excavation. Equipment builders and operators stake their reputation on system performance. Designed and engineered to handle the toughest applications, UDOR USA offers the pumps and drive options to meet your specific needs.

With features like anodized die-cast aluminum crankcases, heavy duty brass manifolds, heavy duty bronze connecting rods, stainless steel conical valve assemblies, tapered roller bearings, heat treated crank shafts, stainless steel stepped plunger guides for increased seal life, replaceable PTFE coated body guides and high-polished solid ceramic plungers, our pumps will provide the service life you've come to expect from UDOR USA.

Your company depends on providing a quality product that will withstand the harshest conditions. Designed and built in our factory in Italy, UDOR USA's complete line of industrial duty pumps not only meets your needs today, but they provide solutions that help your company grow tomorrow.

### NK SERIES ▼



9.1 to 37.8 GPM  
Up to 5075 PSI  
30mm Solid Keyed Shaft  
1450 & 1750 RPM Options

### NK-MI SERIES ▼



12.5 to 37.8 GPM  
Up to 5075 PSI  
13T 16/32 DP Hollow Shaft  
SAE J744 B Flange  
1450 & 1750 RPM Options

### PENTA SERIES ▼



6.6 to 18.8 GPM  
Up to 5800 PSI  
35mm Solid Keyed Shaft  
1000, 1450 & 1750 RPM Options

### VX / VXX SERIES ▼



15.9 to 52.8 GPM  
Up to 5100 PSI  
35mm Solid Keyed Shaft - VX  
40mm Solid Keyed Shaft - VXX  
1000 RPM

### HXR SERIES ▼



32.9 to 104.4 GPM  
Up to 4350 PSI  
50mm Male Solid Shaft  
1500, 1800 & 2000 RPM Options

### VX-MI / VXX-MI SERIES ▼



15.9 to 52.8 GPM  
Up to 5100 PSI  
14T 12/24 DP Hollow Shaft  
SAE J744 B Flange  
1000 RPM

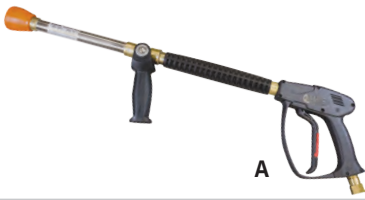
### HXR-MI SERIES ▼



32.9 to 104.4 GPM  
Up to 4350 PSI  
14T 12/24 DP Hollow Shaft  
SAE J744 C Flange  
1500, 1800 & 2000 RPM Options



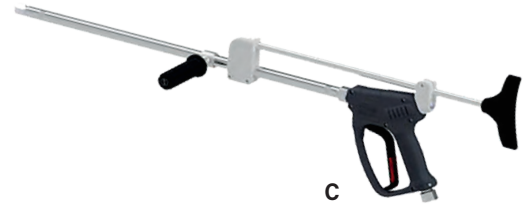
## SPRAY GUNS ▼



A



B



C

	Model	GPM	l/min	PSI	bar	Description
A	22.901.161	10.0	38	3000	200	High Pressure Gun with 21" Barrel. 1.8 mm Orifice
B	22.901.163	25.0	95	3000	200	High Pressure Gun with 21" Barrel. 3.0 mm Orifice
C	1215.50	10.5	40	14500	1000	High Pressure Gun with Lance and Arm Brace.
C	1215.51	10.5	40	18130	1235	High Pressure Gun with Lance and Arm Brace.

## BYPASS UNLOADERS ▼



**UB600**  
15.0 GPM @ 8700 PSI  
1/2" F Inlet  
1/2" F Outlet  
3/8" F Bypass



**UB1000**  
10.5 GPM @ 14500 PSI  
3/8" F Inlet  
3/8" F Outlet  
3/8" F Bypass



**UB1500**  
53.0 GPM @ 2200 PSI  
1" F Inlet  
1" F Outlet  
1" F Bypass



**UB2000**  
53.0 GPM @ 4060 PSI  
1" F Inlet  
1" F Outlet  
1" F Bypass



**U 450/20**  
119.0 GPM @ 3000 PSI  
1-1/4" F Inlet  
1-1/4" F Outlet  
1-1/2" F Bypass



**U 450/30**  
119.0 GPM @ 4350 PSI  
1-1/4" F Inlet  
1-1/4" F Outlet  
1-1/2" F Bypass

## RELIEF VALVES ▼



**SV500**  
21.0 GPM @ 7250 PSI  
1/2" F Inlet  
3/8" F Bypass



**UB600F**  
53.0 GPM @ 2610 PSI  
3/4" F Inlet  
1/2" F Bypass



**SV400**  
119.0 GPM @ 4350 PSI  
1-1/4" F Inlet  
1-1/4" F Bypass

## PUMP PULSATION KIT ▼



The UDOR USA Pulsation Kit allows a user open or close a ball valve to switch between a pulsating jet or standard high-pressure operation.

When the ball valve is opened, flow from one of the three inlet valves is bypassed back to the pump inlet, eliminating the possibility of dead-heading the pump.

The Pulsation Kit easily mounts to the inlet manifold valve plug on many models for a simple field-retrofit.

## INLET FILTERS ▼

### POLYPROPYLENE INLET FILTERS

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



## PUMP LUBRICATION ▼

### UDOR LUBE / UDOR LUBE SYNTHETIC

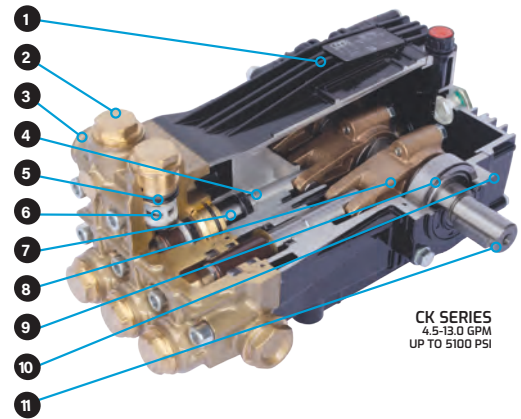
SAE 40W non-detergent lubricant. Specially formulated for use in Udor diaphragm & plunger pumps.

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

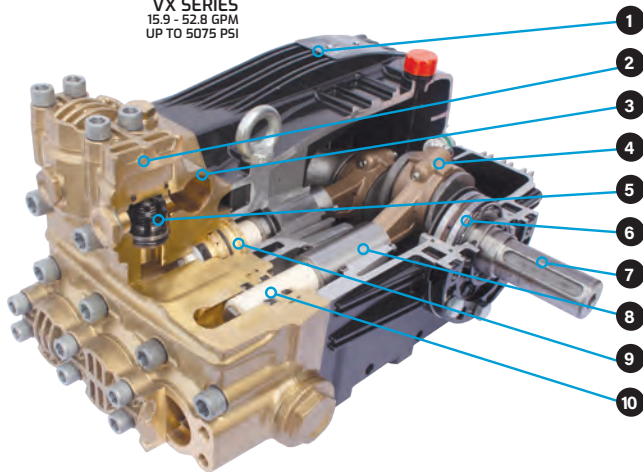


# Industrial Duty Plunger Pumps

- 1 Anodized Die-Cast Aluminum Crankcase
- 2 Large Diameter Valve Caps with Increased Thread Depth
- 3 Heavy Duty Brass Manifold with Internal and External Bracing
- 4 Stainless Steel Stepped Plunger Guide for Increased Seal Life
- 5 Bottom Mount O-Ring and Back-Up Ring to Prevent Thread Damage
- 6 Stainless Steel Conical Valve Assembly for Increased Efficiency
- 7 High-Polished Solid Ceramic Plungers
- 8 Heavy Duty Bronze Connecting Rods
- 9 Heavy Duty Tapered Roller Bearings
- 10 Deeper Back Cover for Increased Oil Capacity
- 11 Heat Treated Crank Shaft



**VX SERIES**  
15.9 - 52.8 GPM  
UP TO 5075 PSI



- 1 Anodized Die-Cast Aluminum Crankcase
- 2 Large Diameter Valve Caps with 1-Piece Cover Plate
- 3 Heavy Duty Brass Manifold with Internal and External Bracing
- 4 Heavy Duty Bronze Connecting Rods
- 5 Stainless Steel Conical Valve Assembly for Increased Efficiency
- 6 Heavy Duty Tapered Roller Bearings
- 7 Heat Treated Crank Shaft
- 8 Stainless Steel Stepped Plunger Guide for Increased Seal Life
- 9 Replaceable PTFE Coated Body Guides
- 10 High-Polished Solid Ceramic Plungers

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