

## **Product Description**



### ***RoadStar*** **Joint Sealant Pumps**

- ✓ German Designed & Engineered
- ✓ 38:1, 48:1 or 59:1 Power Ratios
- ✓ 3" Post Double Elevator / Ram
- ✓ 55 Gallon Drum Wiper / Follower Plate
- ✓ One Person Drum Installation
- ✓ 30' Basic Application Hose
- ✓ Applicator Valve or Gun & Wand
- ✓ Optional High Volume Water Separator
- ✓ Pump fluid section can be rotated 180° for ease of mounting in truck or trailer.
- ✓ 360° Drum Locator / Clamp holds drum in place while traveling. Can be opened right or left for convenience while changing drums.
- ✓ Stainless Steel, Anodized or Zinc Plated external surfaces and fasteners for maximum corrosion protection in outdoor applications.
- ✓ 5 Gallon Pail Conversion Kit Available
- ✓ Built and Serviced in the U.S.A.
- ✓ Chopping Check Style Pump
- ✓ Air Line Filter / Lubricator / Regulator
- ✓ Hose Support
- ✓ Operating and Service Manual
- ✓ Full Shipping Crate
- ✓ Tool Kit (Optional)

## Pump General Information

Description	Air Operated, Double Post Ram Mounted, Balanced Double Acting Chopping Check Style Reciprocating Piston Pump with 55 Gallon Drum Wiper Follower Plate and Air Controls
Typical Materials	Self Leveling & Non-Sag Silicone & Urethane Joint Sealants
Shipping Weight	625 Pounds
Base Plate	36" Wide, 24" Deep
Height	57" Lowered (empty drum), 95" Raised (Changing Drum)
<b>38:1 Ratio – Typical for Self Leveling Sealants</b>	
Displacement	13.2 Cubic Inches per Cycle
Fluid Pressure	3800 PSI at 100 PSI Air Pressure (38:1 Power Ratio)
<b>48:1 Ratio – Typical for Non-Sag Sealants</b>	
Displacement	16.3 Cubic Inches per Cycle
Fluid Pressure	4800 PSI at 100 PSI Air Pressure (48:1 Power Ratio)
<b>59:1 Ratio – Used for Special Applications</b>	
Displacement	13.2 Cubic Inches per Cycle
Fluid Pressure	5900 PSI at 100 PSI Air Pressure (59:1 Power Ratio)
<i>All flow rate and air consumption information below is based on a hypothetical application of a ½" x ½" joint at 100 feet per minute with a typical self leveling sealant. Actual rates and volumes vary depending on the material being dispensed, size of joint, length and diameter of hose, ambient temperature and available air supply. NOTE: The information below compares two pumps doing the same amount of work, NOT the capabilities of the two pumps.</i>	
<b>38:1 Ratio Pump</b>	
Pump Cycle Rate	22.7 Cycles Per Minute
Pump Flow Rate	1.3 Gallons Per Minute
Air Consumption	47 SCFM at 90 PSIG
<b>48:1 Ratio Pump</b>	
Pump Cycle Rate	18.4 Cycles Per Minute
Pump Flow Rate	1.3 Gallons Per Minute
Air Consumption	59 SCFM at 90 PSIG

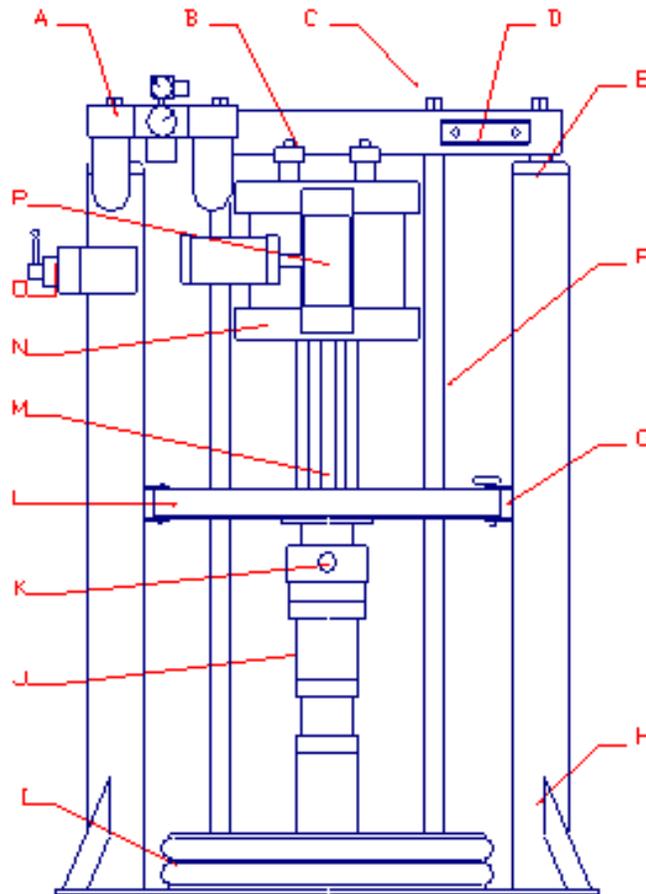
### Standard Dispense Hose & Wand:

1. 28' x ¾" ID main material hose with moisture resistant core. Other lengths and diameters available. In-Line swivel for operator flexibility. 2' x ½" ID material whip hose with moisture resistant core.
2. On/Off 3/8" ID ball valve or pistol grip gun available.
3. 44" x ½" pipe dispense wand with generic ¼" dispense tip.
4. Wand and Tip are all standard pipe threads and may be modified or adapted by the end user to suit specific application requirements.

### Typical Operation:

1. Operator raises pump and follower plate with double post elevator/ram air valve.
2. Material drum is placed under pump follower plate.
3. Pump is lowered into material drum. Follower plate seals material from air.
4. Operator dispenses material by opening/closing dispense valve at end of hose.
5. Pump follows material level down in drum as material is dispensed.
6. When finished for day, operator removes dispense tip to soak in solvent, plugs end of dispense wand with standard pipe plug.

## Construction Application Pump Features



Most pumps found in the joint sealant industry were originally designed to be used in a factory environment, bolted to a flat concrete floor and never moved. Pumps are configured to be used in a construction environment while mounted in a truck or trailer. These features mean increased operator safety, less down time and longer service life between repairs.

Many parts are either Stainless Steel, Electroless Nickel Plated or Yellow Zinc Plated for corrosion protection. These parts are indicated by SS, ENP or YZ below.

- A. Air line filter and lubricator standard. Metal bowls on filter and lubricator. Automatic water drain on filter. Safety cable and "crowsfoot" connector standard. Air line lubricant included. Pressure relief valve to prevent over pressurizing components standard.
- B. Air motor & pump rigidly mounted to elevator crossbar. Simplifies removal for service. Prevents movement when in-transit on and between job sites.
- C. Grade 8 fasteners, SS or YZ.
- D. Hose clamp standard. Keeps pump end of hose out of the way when changing drums.
- E. 1-1/2" chromed & ground elevator piston rods and YZ cylinder end cap. Grease chamber inside cylinder end cap to keep rod lubricated and seal out moisture. Rod scraper ring cleans off dirt and material as rod enters the cylinder.
- F. 1" plated follower plate support rods with lock nuts to prevent rods from breaking where they are attached to the follower plate.
- G. 360° drum clamp keeps drum located while moving around job site and while in-transit.
- H. Cylinder support gussets to reduce elevator flexing while in-transit. 3/8" thick cylinder walls reduce the risk of damage from material drum handling and other in-transit damage. Anodized pistons for corrosion protection.
- I. Pump fluid section features plated packing nut, packing support and primer plate, baked ENP displacement rod for wear and corrosion protection. Pump housing is easily disassembled and is all plated.
- J. Entire pump section may be turned 180° for flexible mounting configurations.

- K. Drum clamp may be hinged from right or left for flexible mounting configurations.
- L. Air motor-to-pump standoff rods and coupler stud and nut are YZ. Optional pump packing bellows cover minimizes contamination from sandblast operations.
- M. Air drive motor has hard chrome piston rod and YZ tie rods, anodized end caps, anodized air piston and composite cylinder for corrosion protection. All fasteners are either SS or YZ; they face down or are horizontal to minimize the possibility of trapped moisture and corrosion.
- N. Main air valve slide plate is heat treated SS for long service life. Valve body pieces are anodized.
- O. Elevator air control features equal diameter and length flow paths to all cylinder ports minimizing the tendency of elevators to cock when one cylinder tries to move before the other.
- P. NEW IN 2009 – Optional high volume moisture separator ahead of the standard air line filter. Greatly reduces moisture contamination, especially with compressors lacking air driers. Retrofit kit available for existing pumps.