



# S SERIES DUMP PUMP

## INSTALLATION INSTRUCTIONS

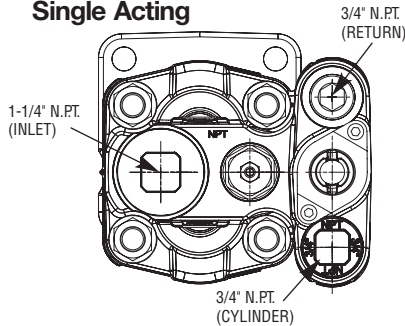
Product designed for dump body applications only.



**DANGER:** Never work on a raised dump bed without proper body props and supports.

### PLUMBING INSTRUCTIONS

#### Single Acting



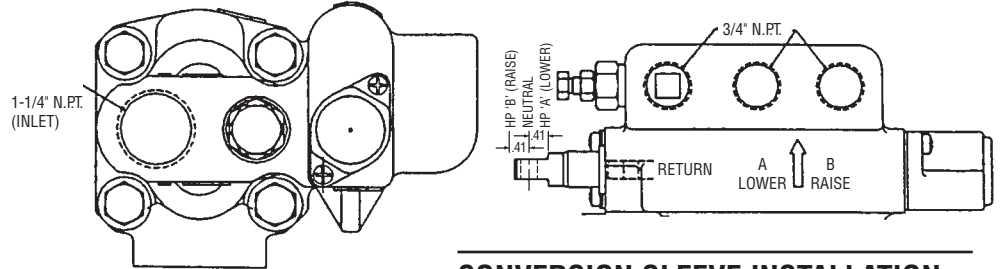
Do not use Teflon Tape as a thread sealant. The use of Teflon Tape will void all warranties expressed or implied for this product.

Always use suction hose (SAE-100R4) on pump inlet.

Hook-up to a separate reservoir sleeve No. AA-1257 in inlet port. Always route return line so it is below the oil level at all times.

Cylinders used as reservoirs have the return port plugged and **NO** sleeve.

#### Double Acting

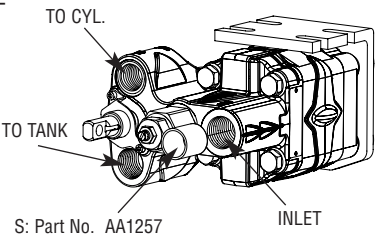


**SPECIAL NOTE:** For long term product life and improved pump performance always use a system hook-up that includes the use of a separate reservoir and the conversion sleeve. Applications, or operation for extended running times will result in excessive heat build up and subsequent damage.

### CONVERSION SLEEVE INSTALLATION

To convert to 3-line operation install sleeve in inlet port.

Remove pipe plug from tank return port.



### PRESSURE RELIEF ADJUSTMENT



**CAUTION:** Main relief pre-set at 2000 PSI  $\pm$  5%. Add or remove appropriate shims under R.V. cap for desired setting.\*\* Max adjustment pressure is 2650 psi (Screw Adjust)

PUMP PRESSURE SPECIFICATIONS			
Model (GPM)	6	11	15
Max. PSI*	3000	3000	2500

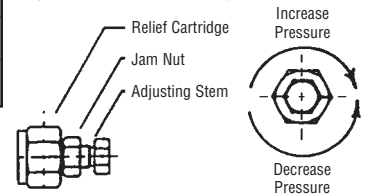
Always use a pressure gauge to set accurately.

\*To achieve 3000 PSI, use high pressure cartridge No. PS-1231VH.

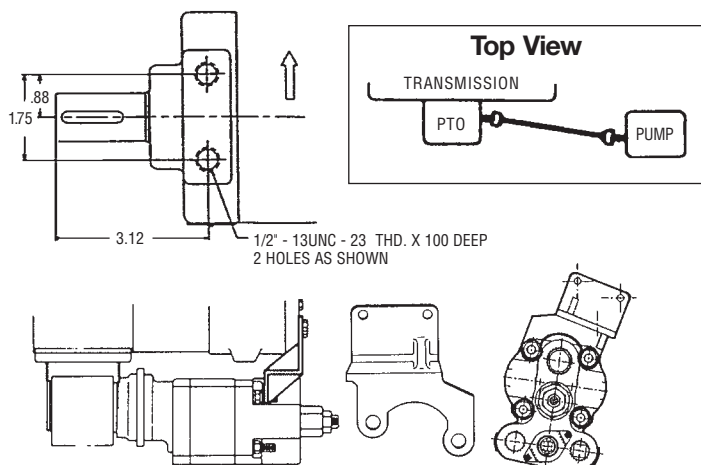
MAIN R.V. SHIM PRESSURE CHART			
Thickness	.005	.015	.062
Pressure	30 PSI	150 PSI	625 PSI
Part No.	PS-1231-13V	PS-1231-14V	PS-1231-15V

\*\*Note: Units built Nov. 02 and later have a screw adjustable main relief valve and does not use shims.

#### Workport Relief Valve Adjustment (Pre-set at 1000 PSI)



### MOUNTING INSTRUCTIONS



#### REMOTE MOUNT

**WARNING:** The rotating shaft between PTO and pump should be shielded with appropriate guard.

Driveline angles should not exceed 12°. Maximum speed for solid shafting is 1000 RPM. Consult driveline manufacturer for specifications. Pump and PTO shafts must be parallel within 1.5°.

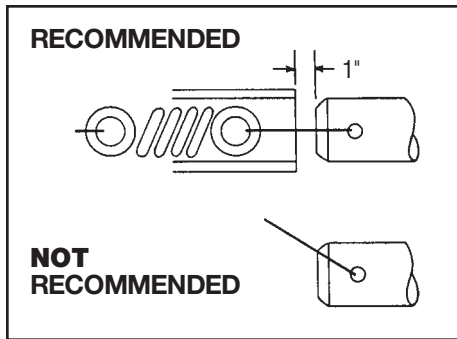
#### DIRECT MOUNT

Direct mount pumps are provided with extended studs and extra nuts for support of pump. A bracket attached to two or more transmission bolts is required. The bracket design should assure that there is no stress or force exerted on the pump or PTO shaft. If vertical supports are greater than 20° off of perpendicular with the transmission main shaft then a reinforced "Z" bracket must be used. Reinforce horizontal members to prohibit flexing at bend or weld.

Attach the bracket at the pump bolt closest to the center of gravity of the pump. Consult Muncie PTO Owner's Manual for special recommendations.

Always apply anti-seize grease to shaft splines before installing into PTO if not done by the manufacturer. Reapply annually or sooner for severe use. PTOs with greasable shaft splines are available. Contact Muncie Power Products for additional information.

## PULL OUT CABLES (NEUTRAL SAFETY STOP)



This clevis hole is part of a neutral stop device and is provided for those applications using a "pull-out" cable. This device allows the cable to move the spool from the raise position to the neutral position, only. As shock loading is possible, it is essential that a spring be incorporated in the pull-out cable hook-up. Failure to do so could result in breakage of the neutral stop device and could lead to injury. We recommend that the cable be fully enclosed and directly in line with the valve spool. Use spring part No. PS-1233V.

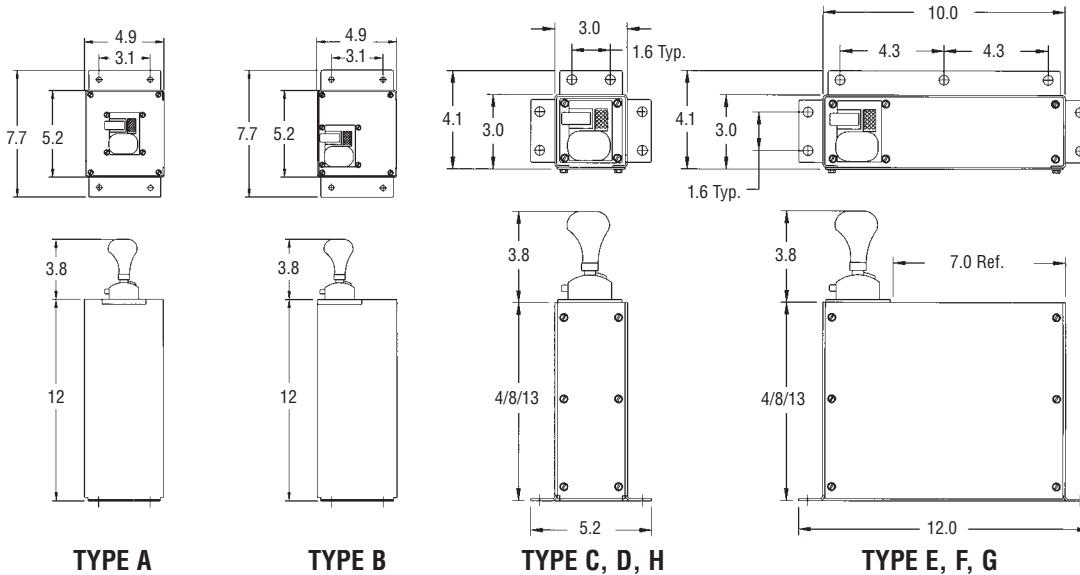
**NOTE:** Never use a pull-out cable on an air shift pump as exact spool position cannot be adequately controlled. Instead use 1436A-1 safety limit dump valve on raise side of air cylinder.

## LEVER CONTROLS

**WARNING:** If valve is to be shifted by lever and rod linkage type control, the installer is responsible for fitting the lever with a neutral locking device to prevent the accidental shifting of the valve spool and accidental raising of the dump body. Muncie offers a complete line of in-cab consoles and controls as listed below.

Lever control rods must be attached to the spool on the front side of pump. Lever control rods cannot be attached to the spool on the rear side due to the neutral safety stop components.

## OTHER CONTROLS DIMENSIONS IN INCHES



### ASC2-\*\*

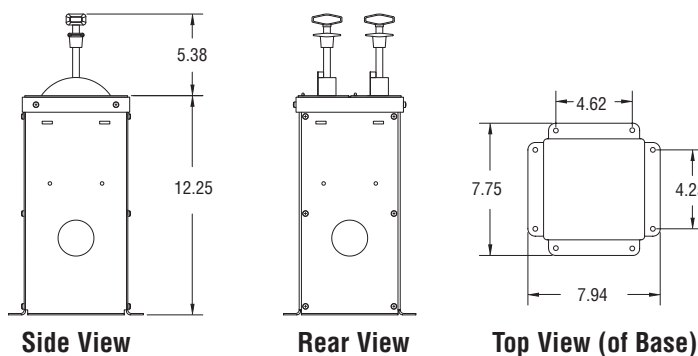
Consoles offer within the industry the largest variety of dump body feathering controls (six models w/w/o automatic PTO kick out and various detent positions) with multiple console choices for customizing with user accessories.

See Muncie brochure number MP04-01 for complete details.

### DPC2-\*\*\*

Heavy duty cable controls and consoles offers the feel of a lever while providing the installation convenience and features of heavy duty, vinyl coated cables. Air/Cable option available, Easy-grip T-handle design with increased leverage for low operator effort. Features include removable access panels, backlit labels, panel knockouts for routing wires or air lines. Optional accessory brackets also available.

See Brochure MP06-03



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