

# UNLOADER VALVE REPAIR — MADE EASY

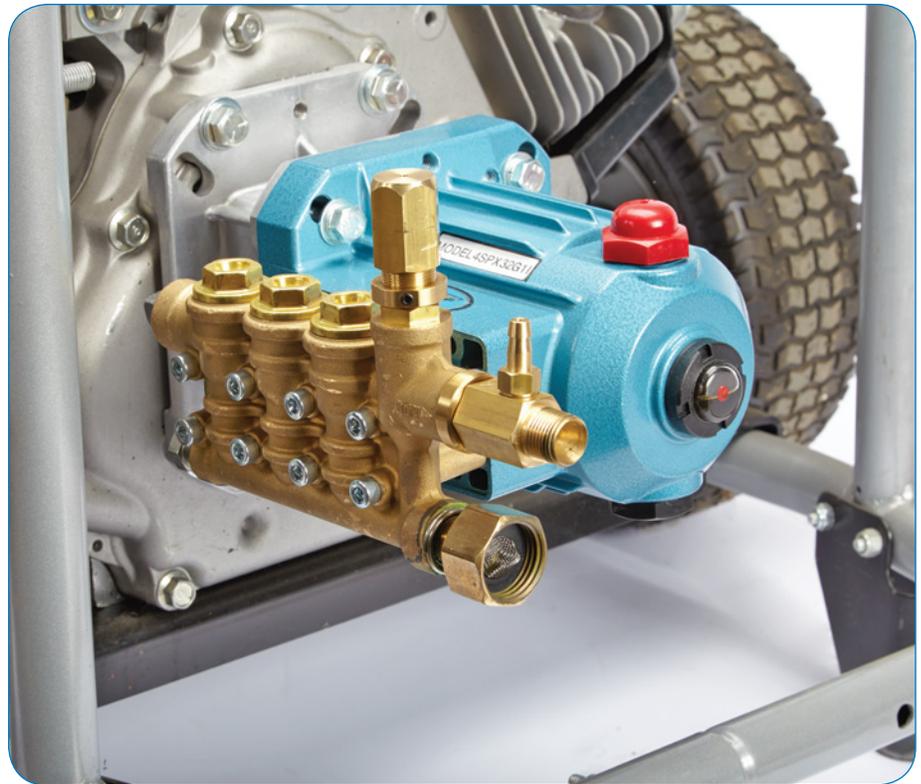


Cat Pumps integral unloaders are the longest-lasting and easiest to service product on the market.

Pumps with integral unloader valves are built to our exacting high-quality standards. From the precision machined piston and seat to the longest-lasting seals available, every pump is designed to provide maximum uptime. When unloader valve servicing is required, the procedure is easy to perform using standard tools.

Integral unloader valves provide many benefits for equipment use, including:

- Matched pump/valve performance for higher efficiencies with less pressure loss
- Lower cost due to fewer fittings and less plumbing
- Integral valve reduces the number of potential leak paths, resulting in less mess and cleaner operation



Cat Pumps Integral Unloader  
Product Performance Range:

- Flow: 0.3 to 3.9 gpm  
(1.1 to 14.7 lpm)
- Pressure: 100 to 4000 psi  
(6.9 to 276 bar)
- Hollow Shaft: 5/8, 3/4 or 1"
- 1750 or 3450 RPM
- Gas or Electric Drive

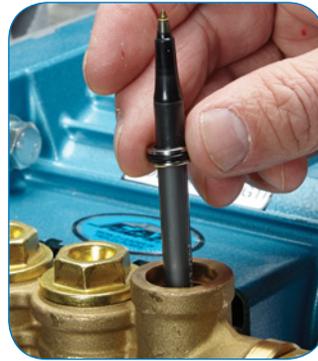
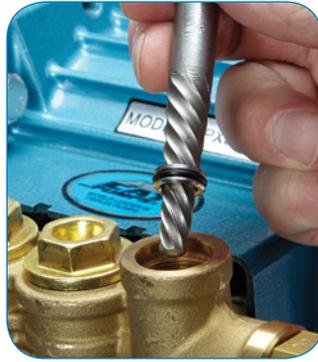
## Unloader Valve Maintenance

### Easy to Service

- No special tools required
- Repair kits are preassembled with only three (3) parts
- Simply drop in replacement components for quick service
- Repair kits are on-the-shelf stock items for 24-hour shipping



# Valve Servicing — Done in Minutes



## Disassemble Pressure Unloader

Unthread adjustment cap and remove spring and cap. With 19 mm wrench, remove piston retainer. Use needle nose pliers to remove piston assembly. Use a #5 Easy Out to remove piston seat.

## Easy to Reassemble

Install new valve seat with tapered inside diameter facing downward. A pen or screwdriver can be used to guide the seat into proper position. Use a 1/4" socket (1/4 drive), to press seat in until bottomed-out. Install new piston assembly into piston retainer, then thread into port. Tighten retainer with 19 mm wrench, add spring and adjustment cap.



## Cat Pumps Keeps Your Equipment Running — and You on Schedule

Nothing is worse than equipment downtime when there are customers to be served. That is why leading equipment manufacturers and users specify Cat Pumps products. Down to the last detail, Cat Pumps products are designed to keep your equipment running longer with less downtime.

With Cat Pumps on the job with you, you can enjoy the advantages of higher productivity, fewer repairs with less maintenance costs and greater confidence in equipment performance. Get the best — get Cat Pumps!

Contact Cat Pumps for more information at [techsupport@catpumps.com](mailto:techsupport@catpumps.com) or 763-780-5440



### CAT PUMPS

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