

3000SS 2 1/2"-12"



Modification Overview

- Production began in 1990 and is current.
- The 3000SS currently utilizes a $\frac{3}{4}$ " 2000BM3 bypass assembly.

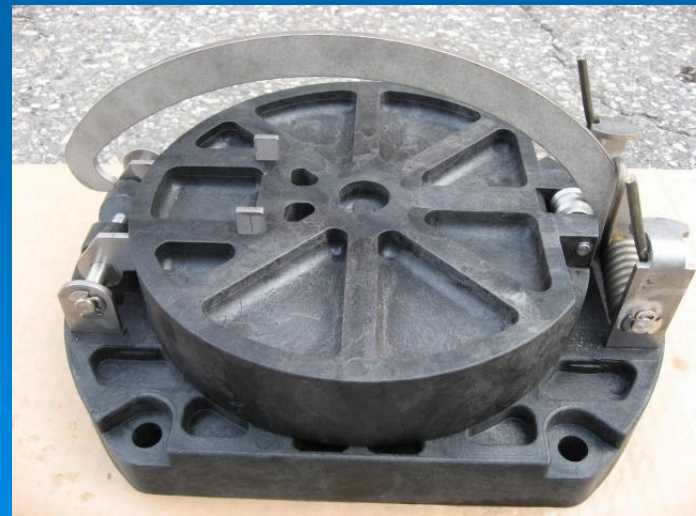
Single Access Cover Removal

- Cover is secured by a grooved coupling.
- Cover has no spring load.



Check Valve Removal

- Check valve modules called “Cam Checks”.
- Checks are o-ring sealed.
- 2 1/2”-6” Cam Checks are threaded into body.
- #1 Check must be removed before #2 can be removed.
- 8-10” Checks are simply bolted into body.



Check Valve Removal

- 2 1/2-6" cam checks unscrew counterclockwise by hand "if possible".
- *Do not use cam arm as a handle to unscrew.



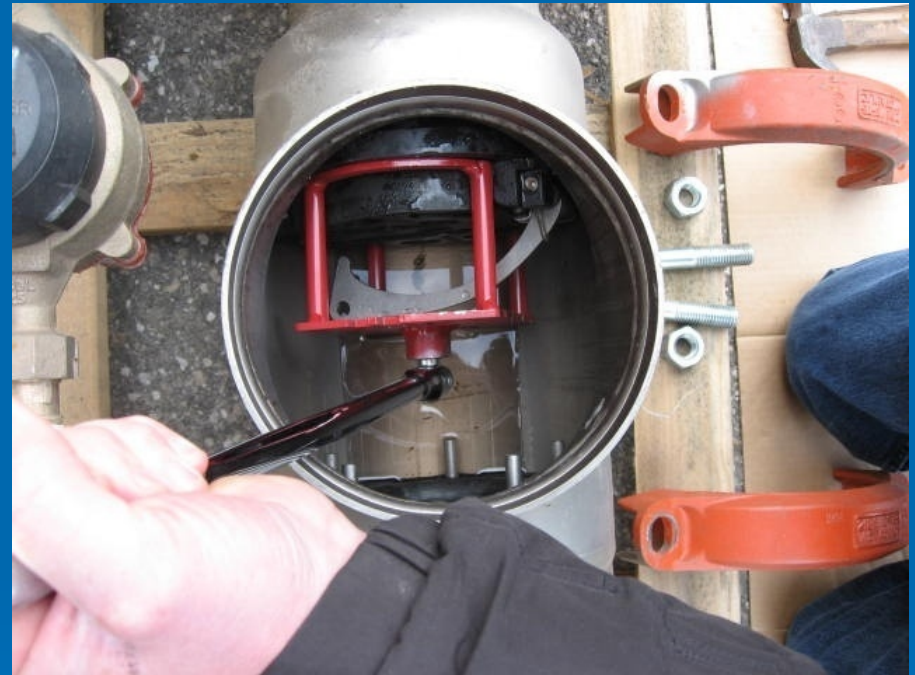
Check Valve Removal

- 2 1/2-6" Cam Checks.
- If too tight, place a drift punch or solid rod (long screwdriver) in one of the holes on the outer edge of the check module.
- Tap with hammer in correct direction (counterclockwise) to loosen.



Check Valve Removal Notes

- 2 1/2-6" Cam Checks.
- There are “special tools” available to help remove check modules.



Check Seat Removal

- Check seats are part of each module and can not be removed.
- If the seat is damaged, the complete check module will need to be replaced.



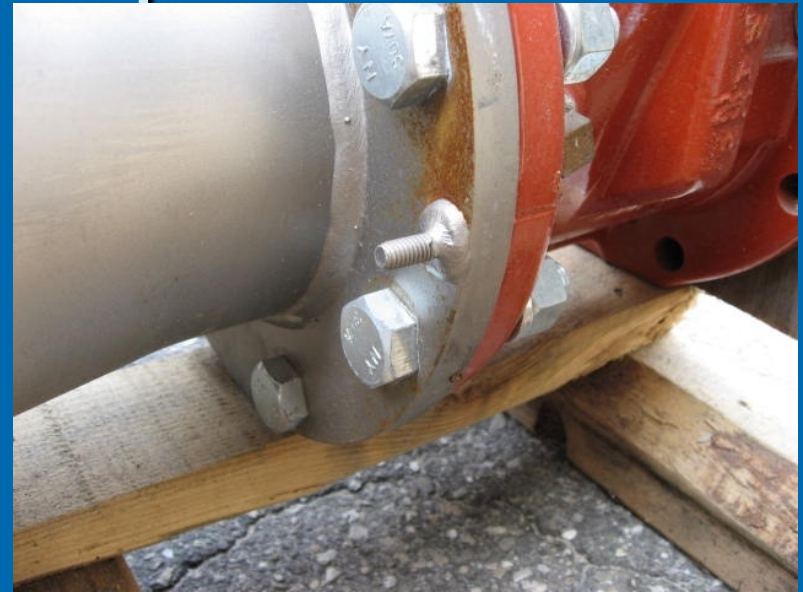
Check Disc Inspection

- 2 1/2-6" Cam Check disc assembly is part of the module and can not be removed.
 - For inspection and cleaning 2 1/2 -4", lift the cam arm and hold in open position.
- *Raise the clapper so that the end of the cam arm rests between the roller and clapper.



Check Disc Inspection

- For inspection and cleaning of the 6" size only.
- Locate the stud on the outlet flange of the assembly.
- Place the cam arm hole on the stud and open the check valve so that the cam rests between the roller and clapper.



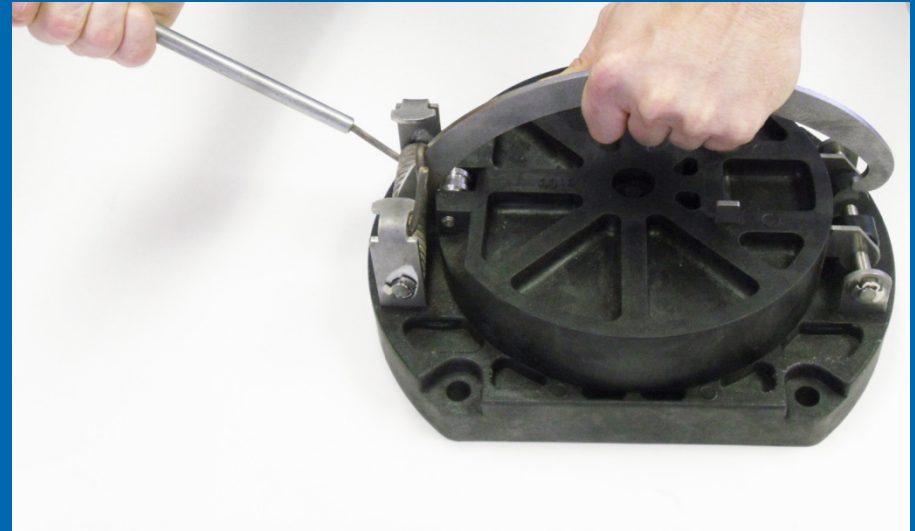
Check Valve Reassembly Notes

- Change and lubricate check o-ring.
- Install #2 check first then #1 check.
- # 2 check should be tightened with a long screwdriver.
- Tighten #1 check firmly by hand only.
- Lubricate the outside edge of the groove coupler gasket.



Check Disc Replacement 8"-12"

- Using the torsion handle, place on the end of the torsion spring and move away from and around the retaining bracket.
- ** Hold handle firmly, high spring tension.
- This will free the cam arm and clapper.



Check Disc Replacement 8"-12"

- Using the retainer wrench, unscrew the disc retainer counterclockwise.



- Once the disc retainer has been removed, the check disc is free.

