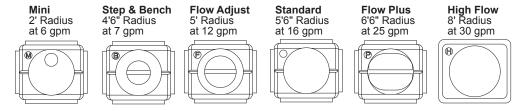
Follow the design plan to position and stake the cleaning head locations. Each head has a designated nozzle that has a precise cleaning radius. Perimeter heads have a 1 ft. (0.3 m) overlap. Mark the cleaning radius around each stake to verify cleaning coverage.

Flare steps and benches to ensure debris does not get cornered.

should be positioned 2 in. (5.1 cm) from the outer edge on steps and benches.



Plumbing the System

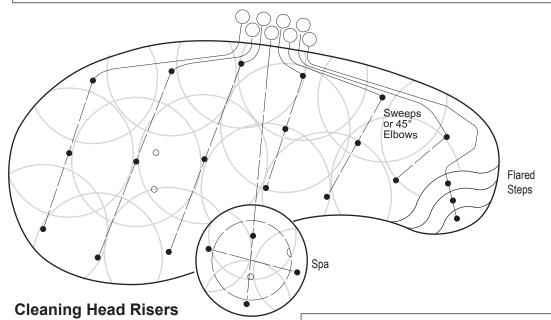
Feed Lines for Cleaning Heads

The certified pool plan indicates which cleaning heads will be plumbed together to form a bank. Run all feed lines to the top of the bond beam to facilitate easy valve hookup. Number the lines according to the design plan.

- Excavate niche in pool wall, 6" x 24" (15 cm x 61 cm) down to the pool floor.
- Make line trench depth sufficient to cover all pipes with 6" (15 cm) of soil.
- · Do not cross lines in floor.
- Use 2" (5.1 cm) Schedule 40 PVC pipe.
- Use 45° and sweep elbows where possible to preserve flow.

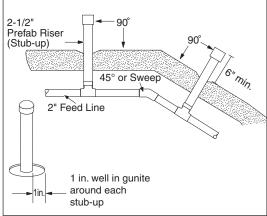
For Vinyl Liner Pools:

- Stake but do not plumb lines until walls are set, plumbing lines are fed under walls.
- Vinyl collars are not adjustable, stub-ups **must be** perpendicular to finished pool floor.
- Dig trenches 8" (20.3 cm) below excavation grade to accommodate setting of fittings.



The cleaning head collars require either 2 $\frac{1}{2}$ " (6.35 cm) Schedule 40 PVC or 2" class 200 (stub-up) risers. Use the prefabricated stub-ups that glue directly into the 2" (5.1 cm) tee, 90-degree elbow, or coupling on the feed lines.

- Position stub-up perpendicular (90°) to the slope of the finished pool floor.
- Stub-ups must be 6" (15.2 cm) above finished elevation.
- During gunite application, leave a 1" (2.5 cm) deep x 1" (2.5 cm) wide well around each stub-up.

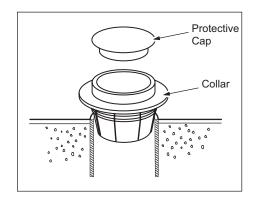


Note: If 2" schedule 40 stub-ups are used, pipe reamer is required.

Install Collars

When the pool interior is completely clean and ready for the final finish application, install the collars.

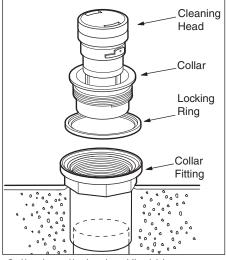
- 1. Set blue protective caps in collars.
- 2. Use heavy bodied PVC glue to secure the cleaning collars. (Primer can be used on the stub-ups but not the collars. Use glue on both.)
- 3. Push collar firmly into pipe with a 1/4 turn.
- 4. Ensure collar is perpendicular with pool shell



For Vinyl Liner Pools:

Pool liner must be in final position before installing collars and cleaning heads.

- 1. Press locking ring firmly into place in groove on collar fitting. **Installation Tip:** Turn collar upside down and use as a tool to press ring into place.
- 2. Use a razor knife to cut liner inside the locking ring, leaving at least a ¼ in. (0.6 cm) edge around the ring perimeter.
- 3. Tighten the collar into the collar fitting, turning clockwise until the collar lip fits snugly against locking ring.
- 4. Insert Metal Combination Tool into collar and rotate clockwise until collar is firmly seated.

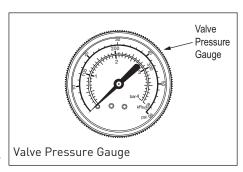


Collar Installation in a Vinyl Liner Pool

Starting the System

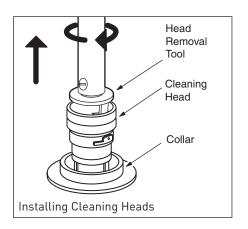
Before initiating the system, open a discharge line before the valve and flush the pool pump and filtration system.

- · Clear debris from all filters and screens.
- Remove the protective caps from the collars.
- Run the in-floor system without cleaning heads installed for 24 hours to ensure the lines are clean.



Install the Cleaning Heads

- 1. Install the nozzles into the cleaning head. Refer to the design plan to verify nozzle size.
- 2. Attach the Head Removal Tool to the pool pole.
- 3. Snap tool into the head. Set head in collar; make sure the head is completely in the collar.
- 4. Turn clockwise (about 1/4 turn) to lock the head into position.
- 5. Lift straight up to release head from the removal tool.
- 6. Run the system for a complete cycle to confirm that all cleaning banks operate and that each head advances during pop-up and retraction.
- 7. Verify proper water pressure at the gauge on the water valve. Optimum level is 14-22 psi (97 152 kPa).



Changing Cleaning Heads

The cleaning head must be in the full down position before removal.

- 1. Attach the Head Removal Tool (part #HTS-CARETAKER) to the pool pole.
- 2. Snap tool into the head.
- 3. Turn counter-clockwise to release head from collar.
- 4. Pull and lift head out of collar.

To reinstall, insert head into collar and turn clockwise to lock it into position.