

# SEAWATER VALVE INSTALLATION BEST PRACTICES



PRODUCT      SEAKEEPER 6, 9, 10, 14, 18, AND 40 MODELS

## PURPOSE

This procedure is intended to guide Seakeeper installers in the installation of the motorized seawater ball valves required in Seakeeper 6, 9, 10, 14, 18, and 40 models' seawater cooling plumbing. The valves are provided by Seakeeper and are available in PVC or bronze construction.

## NOTES

1. Selection of valve material must always consider corrosion compatibility.
2. Seakeeper must approve wiring configuration changes or extensions.
3. If a strainer other than a Seakeeper-provided strainer is used, the strainer should be installed on the inlet side of the valve.
4. When installing 12V systems, replace the 1A inline valve fuse with a 2A fuse.

## INITIAL CONDITIONS

1. **INSTALL** Seakeeper per appropriate Installation Manual mechanical and electrical sections.
2. **OBTAIN** one of following thread cleaners based on valve body type selected:

### PVC VALVE

Acetone-based solvent  
Methyl Ethyl Ketone-based solvent

### BRONZE VALVE

Denatured alcohol  
Acetone-based solvent

3. **OBTAIN** one of following thread sealants or similar, based on valve body type selected:

### PVC VALVE

Sikaflex® 591 Sealant  
Loctite® 5331  
Loctite PL Marine Fast Cure  
Adhesive Sealant

### BRONZE VALVE

Sikaflex 591 Sealant  
Loctite 567 Thread Sealant  
Loctite 577 Thread Sealant

## SEAWATER VALVE INSTALLATION BEST PRACTICES



PRODUCT      SEAKEEPER 6, 9, 10, 14, 18, AND 40 MODELS

### PROCEDURE

1. **CLEAN** male and female threads of valve and fittings
2. **INSPECT** valve threads and fittings for damage or contamination.

#### NOTE:

See Initial Conditions for Seakeeper-approved marine thread sealants.

Seakeeper does NOT recommend thread tape as a sealant.

3. **APPLY** marine thread sealant to mating threads.
4. **INSTALL** valve into the seawater plumbing system within 39 in. (1 m) of seawater pump in suction line.

#### CAUTION:

CRACKING OR PERMANENT DAMAGE MAY OCCUR TO VALVE BODY IF OVER-TIGHTENED.

5. **TIGHTEN** valve adapter fittings by hand or using proper wrench without over-tightening.
6. **INSTALL** hose or piping connections to valve hose barb:
  - ¾ in. (19 mm) hose barb for Seakeeper 6, 9, 10, 14, and 18
  - 1 in. (25.4 mm) hose barb for Model 40
7. **SECURE** hose connections using marine-grade stainless steel hose clamps as applicable.
8. **SUPPORT** plumbing to prevent:
  - Excessive vibration
  - Hose chafing
  - Stress on valve body or fittings
9. **INSTALL** seawater pump in accordance with Seakeeper Cooling Water Schematic and Installation Manual for Seakeeper model.

## SEAWATER VALVE INSTALLATION BEST PRACTICES



PRODUCT      SEAKEEPER 6, 9, 10, 14, 18, AND 40 MODELS

10. **CONNECT** seawater inlet and outlet plumbing.
11. **VERIFY** all hose clamps or fittings are secure.
12. **VERIFY** vessel Seawater DC power breaker is OFF.
13. **ROUTE** DC supply cable and Y-branch cable, avoiding:
  - Sharp edges
  - High heat sources
  - Moving equipment

**NOTE:**

Seakeeper 40 Y-branch cables use ring terminals for seawater pump motor connection.

14. **CONNECT** Y-branch cable Deutsch connectors to seawater pump and motorized seawater valve.
15. **SECURE** all wiring using marine-rated cable support methods.

**\*\*\*\*\* END \*\*\*\*\***