

# HSJ Swing Joint Written Specification

## Part 1 – General

1.1 The HSJ Swing Joint (Unitized, Factory-Assembled, Assembly Kit) is a jointed pipe so constructed that the parts joined are moveable either so that one of the parts may be rotated relative to the other or so that one of the parts in addition to being rotated relative to the other may be moved on its own axis.

## Part 2 – Parts and Material

2.1 The HSJ Swing Joint shall be available in the following diameters: 1", 1 ¼", 1 ½", inlet and outlet styles, lay length – as applicable and unitized, factory-assembled or an assembly kit.

- A. The swing joint shall be constructed from rigid PVC type 1, cell classification 12454-B per ASTM specification D 1784.
- B. The swing joint shall be equipped with a NPT threads and pipe sockets per ASTM D 2464 and D 2466 respectively.
- C. The swing joint shall have each rotating joint sealed with an O-ring, installed pre-compressed in a sealing groove free of parting lines to prevent leakage.
- D. The swing joint shall feature modified stub ACME threads with special engineered diameters and clearance to allow full circle (360 degree) movement and to reduce stress concentrations and joint fractures at thread roots.
- E. The swing joint shall be pressure rated to 315 PSI.

## 2.2 Warranty

- A. The swing joint shall carry a five-year, limited performance warranty.

## Part 3 – Function and Operation

3.1 Recommended pressure range: to 315 PSI

- A. Operating pressure range: to 787 PSI for 60 minutes and short-term pressure of 1008 PSI without leakage or failure