

# Gate Valves

## 1.0 Scope:

All requirements are for PVC Gate Valves and accessories, applicable to installations in Landfill Applications

## 2.0 Materials:

HI-PVC (Hi Impact) Conforming to ASTM D1784 Cell Classification 12454A

IZOD Impact strength rating of 10 – 15 Kilojoule/M<sup>2</sup>

Polypropylene Conforming to ASTM D4101 Cell Classification PP0210B67272

FKM – Viton® Fluorocarbon Rubber

EPDM – Ethylene Propylene Diene Terpolymer Rubber

## 3.0 Valves:

Gate Valves shall be PVC body with FKM or EPDM seals and PP tapered cylindrical plug. Valves shall be flat faced flanged end type conforming to ANSI B16.5 bolt pattern for 150 lb flanges. The valve shall have a non-rising stem, visual position indicator, handwheel for operation, and clean-out plug on bottom of valve body.

## 3.1 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals. Manufacturer must be ISO-9001 certified.

## 3.2 Pressure vs. Temperature

Valves shall have a pressure rating of:

150 psi at 70° F sizes 1-1/2" – 8"

110 psi at 70° F size 10"

75 psi at 70° F sizes 12" & 14"

## 4.0 Accessories:

### 4.1 Stem extensions

Where required should be designed, built and provided by the Asahi/America, Inc., and be 1 of 2 styles:

Style GT-A Two piece extension with outer housing 100% sealed either free standing or supported design.

Style GT-B Single Piece extension either free standing or supported design

### 4.2 Actuation

Actuation where required should be designed, built and provided by Asahi/America, Inc., and be electric type Series 92 Multi-turn available for 1-1/2" – 3" only. All actuation accessories to be provided and installed by Asahi/America, Inc. in accordance with manufacturer's requirements.

### 4.3 Operating Nuts

Where required 2" square operating nuts can be installed on gate valves in place of handwheel. Materials of construction – Anodized Aluminum

## 5.0 Installation Procedures:

All valve joints shall be prepared using flanged connections. The bolt diameters and torque values shall be in accordance with all requirements put forth in the Gate Valve Operation & Maintenance manual. All accessories should be installed in accordance with the manufacturer's requirements as well as any facility requirements.