

Swing Check Valves

1.0 Scope:

All requirements are for PVC, Polypropylene, & PVDF Swing Check Valves and accessories.

2.0 Materials:

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

IZOD Impact strength rating of 10 – 15 Kilojoule/M²

PP Conforming to ASTM D4101 Cell Classification PP0210B67272

PVDF Conforming to ASTM D3222 Cell Classification Type II

FKM – Viton® Fluorocarbon Rubber

EPDM – Ethylene Propylene Diene Terpolymer Rubber

PTFE – Teflon® Polytetrafluoroethylene

3.0 Valves:

Swing Check Valves shall be PVC, PP, or PVDF body with FKM, EPDM, or PTFE seals and shall incorporate a single disc design suitable for horizontal or vertical applications. Valves shall have a top entry bonnet for maintenance purposes. Valves shall be flat faced flanged end type conforming to ANSI B16.5 bolt pattern for 150 lb flanges.

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:

	EPDM/FKM/PTFE Seals
	150 psi at 70° F sizes 3/4" – 3"
	100 psi at 70° F sizes 4" - 6"
	70 psi at 70° F size 8"

4.0 Accessories:

4.1 External SS spring or External Lever & Weight option

Shall be designed, built and installed by Asahi/America, Inc. To be used for swing check valves in Vertical Installations to minimize water hammer or off the discharge side of the pump to minimize chattering and assist in closing.

5.0 Installation Procedures:

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