

Ti Flanged Diaphragm Valves

1.0 Scope:

All requirements are for Ti Flanged Diaphragm Valves.

2.0 Materials:

PPG (glass fiber reinforced Polypropylene) – Proprietary blend
PVDF – Conforming to ASTM D3222-91A Cell Classification Type II
EPDM – Ethylene Propylene Diene Terpolymer Rubber
PTFE – Teflon® Polytetrafluoroethylene

2.1 Ti Model Specifics

Body Material – PVDF

Bonnet Material – PPG

Diaphragm – 3 Layer EPDM/PVDF/PTFE with Palladium Titanium diaphragm Insert

Compressor Joint (1/2" – 2") – Palladium Titanium

Compressor Insert & Pin (2-1/2" – 6") – Palladium Titanium

Body to Bonnet Fasteners (1/2" – 6") – Titanium

Body insert nuts (2-1/2" – 6") – Titanium

3.0 Valves:

All Ti Type-14/15 flanged diaphragm valves shall be:

Solid molded PVDF flanged body with PPG bonnet

Weir type with square body to bonnet design Type- 14 (1/2" – 2")

Weir Type with round body to bonnet design with Titanium body insert nuts Type- 14 (2-1/2" – 4"), Type-15 (6").

3-layer EPDM cushion /PVDF gas barrier /PTFE diaphragm with over-molded threaded Palladium Titanium diaphragm insert

Palladium Titanium Joint (1/2" – 2") or compressor insert (2-1/2" – 6").

Palladium Titanium Compressor pin (2-1/2" – 6")

Titanium body to bonnet bolts (1/2" – 6"), studs (2-1/2" – 6") nuts and washers.

Titanium Bonnet Plug (2-1/2" – 6")

Titanium Stopper (6")

Face to face dimensions shall conform to Type-G

3.1 Operators

Type-14 1/2" – 4" Handwheel standard operator (Red Color)

Type-15 5" & 6" Handwheel standard operator (Red Color)

3.2 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals.

Manufacturer must be ISO-9001 certified.

3.3 Pressure vs. Temperature

Valves shall have a pressure rating of: 150 psi at 70°F sizes 1/2" – 4"

115 psi at 70°F sizes 5" & 6"

4.0 Accessories:

Accessories shall be tbd.

5.0 Installation Procedures:

All valve joints shall be flanged and shall be prepared in accordance with the requirements put forth in the Type-14 Operation & Maintenance manual. All accessories should be installed in accordance with the manufacturer's requirements as well as any facility requirements.