



TI Diaphragm 1/2" - 2"

Parts List (Sizes 1/2" - 2")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVDF
2	Bonnet	1	PPG
3	Diaphragm	1	PTFE
3a	Diaphragm Metal Insert	1	PALLADIUM TITANIUM
4	Cushion	1	EPDM
5	PVDF Gas Barrier	1	PVDF
6	Compressor	1	PVDF
7	Joint	1	PALLADIUM TITANIUM
8	Stem	1	COPPER ALLOY (C3604)
9	Sleeve	1	COPPER ALLOY (C3604)
10	Handwheel	1	PP
11	Gauge Cover	1	POLYCARBONATE
12	Name Plate	1	PVC
13	Retaining Ring C-Type	1	304 SS
14	O-Ring (A)	1	EPDM
15	O-Ring (B)	1	EPDM
16	Thrust Ring (A)	1	UHMWPE
17	Thrust Ring (B)	1	UHMWPE
18	Bolt, Nut, Washer	4 Sets	TITANIUM
20	Stopper (A)	1	COPPER ALLOY (C3604)
21	Screw	1	304 SS

For exploded view drawings refer to page 64

Specifications

Sizes: 1/2" - 2"

Body Material: PVDF

Bonnet Material: PPG

Diaphragm: 3-Layer EPDM/PVDF
PTFE with Palladium
Titanium Insert

Joint: Palladium Titanium

Fasteners: Titanium

Standard Features (Sizes 1/2" - 2")

- Durable corrosion resistant PPG bonnet
- Solid molded PVDF flanged body
- 3-Layer EPDM/PVDF/PTFE diaphragm
- All titanium body to bonnet fasteners
- Palladium titanium compressor joint and diaphragm insert

Sample Specification (1/2" - 2")

All TI Type 14 diaphragm valves shall be of solid molded PVDF flanged body and PPG bonnet, weir type with square body to bonnet sealing design. Valves shall be supplied standard with 3-layer EPDM cushion/PVDF gas barrier/PTFE diaphragm, titanium body to bonnet bolts, nuts, and washers. Diaphragms shall feature palladium titanium threaded connection stud that shall connect to compressor via palladium titanium connection "Joint". Face to face dimensions shall conform to Type G. PVDF conforming to ASTM D3222 Cell Classification Type II. Valves shall be rated to 150 psi at 70 F as manufactured by Asahi/America, Inc.



TI Diaphragm 6"

Specifications

- Size:** 6"
- Body Material:** PVDF
- Bonnet Material:** PPG
- Diaphragm:** 3-Layer EPDM/PVDF/PTFE with Palladium Titanium Insert
- Compressor Pin:** Palladium Titanium
- Compressor Nut:** Palladium Titanium
- Fasteners:** Titanium

Parts List (Size 6")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVDF
2	Bonnet	1	PPG
3	Diaphragm	1	PTFE
3a	Diaphragm Metal Insert	1	PALLADIUM TITANIUM
4	Cushion	1	EPDM
5	PVDF Gas Barrier	1	PVDF
6	Compressor Nut	1	PVDF
7	Compressor Pin	1	PALLADIUM TITANIUM
8	Stem	1	COPPER ALLOY (C3604)
9	Sleeve (A)	1	COPPER ALLOY (C3604)
10	Thrust Bearing (A)	1	HIGH CARBON CHROMIUM (SUJ 2)
11	O-Ring (A)	1	NBR
12	Bonnet Plug	1	Titanium
13	Handwheel	1	PP
14	Name Plate	1	PVC
15	Cap Nut	1	PP
16	Sheet Gasket (A)	1	EPDM
17	Sheet Ring	1	CHROMIZED STEEL (400 SS)
18	Stopper	1	TITANIUM
19	Spring Washer	1	304 SS
20	Nut	1	304 SS
21	Gauge Cover	1	POLYCARBONATE
23	Stud Bolt, Nut, Washer	4 Sets	TITANIUM
24	Bolt, Nut, Washer	8 Sets	TITANIUM
1a	Body Insert Nut	4	TITANIUM

For exploded view drawings refer to page 75

Standard Features (Size 6")

- Durable corrosion resistant PPG bonnet
- Solid molded PVDF flanged body
- 3-Layer EPDM/PVDF/PTFE diaphragm
- All titanium body to bonnet fasteners
- Palladium titanium compressor pin, compressor insert and diaphragm insert

Sample Specification (6")

All TI Type 15 diaphragm valves shall be of solid molded PVDF flanged body and PPG bonnet, weir type with round body to bonnet sealing design. Valves shall be supplied standard with 3-layer EPDM Cushion/PVDF Gas Barrier/PTFE diaphragm, Titanium body to bonnet bolts, studs, molded in body inserts, nuts, and washers. Diaphragms shall feature palladium titanium threaded connection stud that shall connect to the PVDF compressor via palladium titanium compressor nut. Compressor pin shall be palladium titanium. Face to face dimensions shall conform to Type G. PVDF conforming to ASTM D3222 Cell Classification Type II. Valves shall be rated to 70 psi at 70 F as manufactured by Asahi/America, Inc.

TI 2-1/2" - 4"

Diaphragm Valves



TI Diaphragm 2-1/2" - 4"

Parts List (Sizes 2-1/2" - 4")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVDF
2	Bonnet	1	PPG
3	Diaphragm	1	PTFE
3a	Diaphragm Metal Insert	1	PALLADIUM TITANIUM
4	Cushion	1	EPDM
5	PVDF Gas Barrier	1	PVDF
6	Compressor	1	PVDF
8	Stem	1	COPPER ALLOY (C3604)
8a	Indicating Rod	1	304 SS
9	Sleeve	1	COPPER ALLOY (C3604)
10	Handwheel	1	PP
11	Gauge Cover	1	POLYCARBONATE
12	Name Plate	1	PVC
13	Retaining Ring C-Type	1	304 SS
14	O-Ring (A)	1	EPDM
15	O-Ring (B)	1	EPDM
16	Thrust Ring (A)	1	UHMWPE
17	Thrust Ring (B)	1	UHMWPE
18	Bolt, Nut, Washer	4 Sets	TITANIUM
20	Stopper (A)	1	COPPER ALLOY (C3604)
88	Bonnet Plug	1	TITANIUM
89	Compressor Pin	1	PALLADIUM TITANIUM
90	Stud Bolt, Nut, Washer	4 Sets	TITANIUM
94	Metal Compressor Insert	1	PALLIDIUM TITANIUM
1a	Body Insert Nut	4	TITANIUM

For exploded view drawings refer to page 65

Specifications

Sizes: 2-1/2" - 4"

Body Material: PVDF

Bonnet Material: PPG

Diaphragm: 3-Layer EPDM/PVDF/
PTFE with Palladium
Titanium Insert

Compressor Pin: Palladium Titanium

Compressor Insert: Palladium Titanium

Fasteners: Titanium

Standard Features (Sizes 2-1/2" - 4")

- Durable corrosion resistant PPG bonnet
- Solid molded PVDF flanged body
- 3-Layer EPDM/PVDF/PTFE diaphragm
- All titanium body to bonnet fasteners
- Palladium titanium compressor pin, compressor insert and diaphragm insert

Sample Specification (2-1/2"- 4")

All TI Type 14 diaphragm valves shall be of solid molded PVDF flanged body and PPG bonnet, weir type with round body to bonnet sealing design. Valves shall be supplied standard with 3-layer EPDM Cushion/PVDF gas barrier/PTFE diaphragm, Titanium body to bonnet bolts, studs, molded in body inserts, nuts, and washers. Diaphragms shall feature palladium titanium threaded connection stud that shall connect to the PVDF compressor via palladium titanium metal insert. Compressor pin shall be palladium titanium. Face to face dimensions shall conform to Type G. PVDF conforming to ASTM D3222 Cell Classification Type II. Valves shall be rated to 150 psi at 70 F as manufactured by Asahi/America, Inc.