

# Automated & Manual Butterfly Valves



Wafer



Lug



Lug



Wafer

## Electric and Pneumatic Automation Applications

DynaQuip's 70 Wafer and 72 Lug series of electric and pneumatic automated butterfly valves are built tough. Pre-sized and preassembled with our HP series pneumatic actuator and MA series electric actuator, these valves come standard with ductile iron body and disc and abrasion-resistant Buna-N seat for stretch resistant, tight shut-off.

## The DynaQuip Difference

For over eight decades DynaQuip® has provided superior products and customer service. We offer flexible and innovative solutions for our unique customer needs. Our products are assembled, tested, and stored at our St. Clair, MO headquarters enabling us to offer quality assurance and industry best lead times.

- Industry best lead times
- Personal customer service
- Superior quality products
- Flexible, innovative solutions

## Electric Automated Butterfly Valve Features

- NEMA 4 housing with manual override and handwheel
- Self-locking gear train and reversing motor
- Multiple voltages

## Pneumatic Automated Butterfly Valve Features

- Double-acting or spring-return dual rack & pinion actuators
- Pneumatic accessories

## Construction Specifications

- **Body:** Ductile iron
- **Disc:** Ni-coated ductile iron and 316 stainless steel
- **Stem:** 416 stainless steel
- **Resilient Seat:** EPDM, Buna-N, Viton®, PTFE/ Viton®
- **Stem Bushings:** PTFE
- **Disc Taper Pins:** 316 stainless steel
- **O-Ring:** EPDM, Buna-N
- **Set Screws:** Carbon steel

200 PSI (2" – 12"), 150 PSI (14" – 24") CWP

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## Shaft Weather Seal

(Below bushing on some models.)

## One-Piece Thru Shaft

Ensures dependability and positive disc positioning.

## O-Ring

Provides further prevention of stem leakage.

## Set-Screw

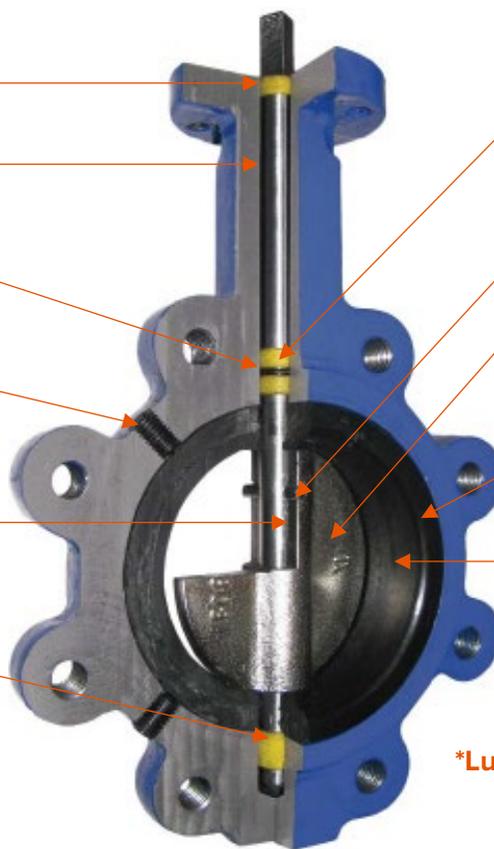
Stabilizes seat to prevent movement. Positive dead-end service up to 75 PSIG max through 12".

## Smooth Finished Disc Flats

These "mate" with seat flats to give a highly efficient seal; prevents leakage into shaft areas.

## Support Shaft Seal

Bonding of elastomer to phenolic



## Bushings

Furnishes shaft support for positive shaft alignment and actuator support. (4 Bushings)

## Precision Taper Pin

Ensures a positive, vibration proof shaft to disc connection.

## Precision Profile Disc Provides

bubble-tight shut-off and assures minimum torque and longer seat life.

## Seat Face

Negates need for flange gaskets.

## Phenolic Backed Seat

Non-collapsible, stretch resistant, blow-out proof.

\*Lug style butterfly valve image

## Available Seat Materials for Butterfly Valves

	EPDM	VITON®	PTFE BONDED TO VITON®	BUNA-N
Common Names	EPT, EPR	Flouro-elastomer	Teflon®	Buna, Nitrile, NBR
Color	Black	Black	White	Black
Chemical Type	Ethylene-propylene-diene-monomer	Poly-tetra-fluorinated-hydrocarbon	Poly-fluoro-ethylene	Butadiene/Acrylonitrile
Temp Rating	-30 °F to 275 °F	-20 °F to 325 °F	-20 °F to 325 °F	10 °F to 180 °F
Generally Suitable For	Less than 10% acids, inorganic and organic alcohols, alkaline salts and solutions, dry bulk, water	All aromatic aliphatic and halogenated carbons	For highly oxidizing acids (nitric, sulfuric) and alkalis	Petroleum oils and water
Generally, NOT Suited For	Hydrocarbons	Ketones, esters or in combination with hot water and oil	Abrasive services	Many chemicals

To be used only as a guide in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions. It must be stressed that this information is offered only as a guide, and because of variables in actual service conditions, the accuracy of the ratings cannot be guaranteed. Actual service life can be determined only by the elastomers in actual service conditions.

This chart should be used as a general guide for a particular group of compounds. It does not mean that the seat rating necessarily applies to every possible compound that could be classified in the group.

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