

# Butterfly Valves

Centric / Double Offset design



**SATURN**  
VALVES

## Butterfly Valve

### Type - Centric

#### Special Features:

- Stem Extension
- Split Design with PTFE Sleeve

#### Design Standard:

BS EN 593, AWWA C504, API 609

#### Size:

DN 40 to DN 600 ( 1.1/2" to 12" )

#### Pressure rating:

PN 6 to PN 16, 150#

#### Material Construction:

CI, DI, WCB, CF8, CF8M, AB2

#### Operation:

Lever, Gear and Actuators (Pneumatic, Hydraulic and Motorized)

**Seat** : EPDM, Silicon, Viton, Nitrile, Hypalon, NBR etc

#### End Connection:

Wafer and Lugged

#### Application:

- Water
- Sea Water and Brine
- Air Service
- Effluents
- Weak Acid and Alkali
- Oil Service



## Butterfly Valve

### Type – Double Offset Disc

#### Special Features:

- Stem Extension
- Available with Fabricated Design

#### Design Standard:

BS EN 593, AWWA C504, API 609

#### Size:

DN 100 to DN 2400 ( 4" to 96" )

#### Pressure rating:

PN 6 to PN 16

#### Material Construction:

CI, DI, WCB, CF8, CF8M , MS Fabricated

#### Operation:

Lever, Gear and Actuators (Pneumatic, Hydraulic and Motorized)

**Seat:** EPDM, Silicon, Viton, Nitrile, NBR and Metal seated

#### End Connection:

Wafer and Flanged

#### Application:

- Water
- Sea Water and Brine
- Effluents
- Oil Service



# ENGINEERING RE-DEFINED



## Mevada Engineering Works Pvt. Ltd.

Unit No. 1, Plot No 9, Mistry Ind. Estate, I.B. Patel Road,  
Goregaon (East), Mumbai : 400063. Maharashtra, INDIA.  
Telephone : +91 - 22 - 2685 9960 / 42523200  
Fax : +91 - 22 2685 2045 / 42523202  
Email : [Info@saturnvalves.com](mailto:Info@saturnvalves.com) / [sales@saturnvalves.com](mailto:sales@saturnvalves.com)  
Web : [www.saturnvalves.com](http://www.saturnvalves.com)



50  
Years  
OF SERVICE

# Butterfly Valves

Centric design **Seat Selection**



Valve Seat Material	Resistant Against	Temperature Range
NBR (Perbunan®) Acrylonitrile Butadiene Rubber	Petroleum, grease, alcohol, glycol, propane, butane, diesel fuels, compressed air, latex and many other media.	-10°C to +80°C or up to +100°C for intermittent operation
HNBR (Therban®) Hydrogenated Acrylonitrile Butadiene Rubber	Petroleum, grease, alcohol, glycol, propane, butane, diesel fuels, alkalis, salts, amines, ammonia, many other media. Highly polluted media with high velocity, abrasive media.	-10°C up to +120°C
EPDM Ethylene Propylene Terpolymer	Ozone, phosphate, ester, ketones, alcohols, glycols, dilute-sulphuric acid, alkaline solutions in general, treated water (with caustic soda, sodium sulphite, chlorine), hot water and steam (it is attacked by hydrocarbonaceous solutions and oils, chlorinated hydrocarbons, turpentine and all other petroleum based oils).	-10°C up to +120°C
EPDM-H	As EPDM including drinking water approval (KTW/ DVGW).	-10°C up to +140°C
FPM (Viton®) Fluorelastomer	Strong and weak mineral acids, aliphatic hydrocarbons, aromatic phenolic and halogenated hydrocarbons, ester of aromatic acids, aliphatic acids, phosphoric acids, phosphoric ester, aromatic ethers, aliphatic ethers, ozone, chlorine and hypochlorite. (Viton® is not suitable for dry heat, hot water and steam).	-10°C up to +150°C

# Butterfly Valves

## Centric design Bolt Dimensions



SATURN<sup>®</sup>  
VALVES

Bolt Dimensions DN 50 - 600

DN	PN	Quantity	For Wafer Bodies Bolt with Nut Thread		Quantity	For Lug Bodies Bolt with Nut Thread	
				Length (mm/inch)			Length (mm/inch)
50	PN10	4	M16	100	8	M16	35
	PN16	4	M16	100	8	M16	35
	ANSI 150	4	5/8" - 11 UNC	4"	8	5/8" - 11 UNC	1 1/2"
65	PN10	4	M16	110	8	M16	35
	PN16	4	M16	110	8	M16	35
	ANSI 150	4	5/8" - 11 UNC	4"	8	5/8" - 11 UNC	1 3/4"
80	PN10	8	M16	110	16	M16	40
	PN16	8	M16	110	16	M16	40
	ANSI 150	4	5/8" - 11 UNC	5"	8	5/8" - 11 UNC	1 3/4"
100	PN10	8	M16	120	16	M16	40
	PN16	8	M16	120	16	M16	40
	ANSI 150	8	5/8" - 11 UNC	5"	16	5/8" - 11 UNC	1 3/4"
125	PN10	8	M16	120	16	M16	45
	PN16	8	M16	120	16	M16	45
	ANSI 150	8	3/4" - 10 UNC	5 1/2"	16	3/4" - 10 UNC	2"
150	PN10	8	M20	130	16	M20	45
	PN16	8	M20	130	16	M20	45
	ANSI 150	8	3/4" - 10 UNC	5 1/2"	16	3/4" - 10 UNC	2"
200	PN10	8	M20	130	16	M20	50
	PN16	12	M20	130	24	M20	50
	ANSI 150	8	3/4" - 10 UNC	5 1/2"	16	3/4" - 10 UNC	2"
250	PN10	12	M20	150	24	M20	50
	PN16	12	M24	150	24	M24	50
	ANSI 150	12	7/8" - 9 UNC	6 1/2"	24	7/8" - 9 UNC	2 1/2"
300	PN10	12	M20	160	24	M20	60
	PN16	12	M24	160	24	M24	60
	ANSI 150	12	7/8" - 9 UNC	7"	24	7/8" - 9 UNC	2 1/2"
350	PN10	16	M20	160	32	M20	60
	PN16	16	M24	170	32	M24	65
	ANSI 150	12	1" - 8 UNC	8"	24	1" - 8 UNC	2 3/4"
400	PN10	16	M24	180	32	M24	70
	PN16	16	M27	200	32	M27	75
	ANSI 150	16	1" - 8 UNC	9"	32	1" - 8 UNC	2 3/4"
450	PN10	20	M24	200	40	M24	70
	PN16	20	M27	220	40	M27	75
	ANSI 150	16	1 1/8" - 8 UN	10"	32	1 1/8" - 8 UN	3"
500	PN10	20	M24	220	40	M24	70
	PN16	20	M30	240	40	M30	90
	ANSI 150	20	1 1/8" - 8 UN	10"	40	1 1/8" - 8 UN	3"
600	PN10	20	M27	240	40	M27	90
	PN16	20	M33	260	40	M33	100
	ANSI 150	20	1 1/4" - 8 UN	12"	40	1 1/4" - 8 UN	4 1/2"

For weld neck flanges according to EN 1092-1, Type 11, PN10 and PN16 or ANSI 150 B16.5.