



BVE BHARAT VALVES

EXCELLENCE THROUGH GENERATIONS

An ISO 9001-2015 Certified Company



PREFACE

An ISO 9001-2015 company, The company is engaged in Design, Development, Manufacturing and supply of quality Industrial Valves. The company has the expertise and facilities to meet growing demand of process and other allied industries for standard and customized valves for wide range of applications.

Our wide range of products comprises of Cast Steel, Stainless Steel & Alloy Steel Ball Valves (Metal to Metal Seated & Soft Seated), Double Block & Bleed Ball Valves, Gate, Globe & Check Valves (High Pressure & Pressure Seal Type), Butterfly Valves (Metal Seated, Soft Seated and Triple Offset Design) Dual Plate & Single Plate Check Valves, Control Gate Valves, Control Butterfly Valves, Bellow seal Gate & Globe Valve, Diaphragm, Sluice & Safety valves as per client's specific requirements in size ranging from ½" to 36" & pressure rating from 150# to 2500#. The Valves can be supplied with Electric Actuator , Pneumatic Actuator and Gear operations.

Qualified professional & experienced engineers are part of our team to provide the industry with High Quality & Cost Effective products along with best suitable engineering solutions & support to our esteemed clients. We believe in continuous improvements & product innovation to keep ourselves competent.

The company through creativity & innovations is ultimately projecting itself to the forefront of today's Oil & Gas, Petrochemicals, Power, Fertilizer, Chemicals & other allied industries. Extensive technical knowledge of our professionals backed by sound manufacturing capabilities enable us to provide one- stop solutions for all types of Industrial Valves.

The Company adheres to the applicable international standards of manufacturing and testing. We look forward to working with new customer to solve their unique piping needs as they fit in our range of products. We kindly request you to give us opportunity to serve you in best possible way and to prove our commitment in solving your problems and add value to your process applications.



NEHAL SHAH
Director

भारत सरकार
Certificate No. 48033

प्रशिक्षण विभाग
Directorate General of Training
कौशल विकास एवं उद्यमिता मंत्रालय
Ministry of Skill Development and Entrepreneurship
नवीय नगर
Government of India

CERTIFICATE OF PROFICIENCY

Certified that: **श्रीमती निहाल शाह**
Shri/Ms. **NEHAL SHAH** has successfully completed the training programme as per details given below and awarded this certificate. **श्रीमती निहाल शाह** ने अपने अभ्यास एवं कौशल के माध्यम से निम्नलिखित प्रमाणित किया है।

Name of the course / **उद्योग में उपयोग के लिए**
TENTATIVE & VALVES **ADVANCED TRAINING INSTITUTE**
Course conducted at / **उद्योग में उपयोग के लिए**
Duration of the course / **उद्योग में उपयोग के लिए**
From / **16.01.2017** To / **20.01.2017**
Designated / **प्रशिक्षण / ट्रेनिंग**

Place/Date: **30/01/2017**
Date/Place: **30/01/2017**

(ISO 29990 - 2010 CERTIFIED)

QRO
QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that:

BHARAT VALVES & ENGINEERING SERVICES,
GALA NO. 48, GANDHI NAGAR, TARGALLI, NEAR KARRASTAN,
KURLA-ANDHERI ROAD, JARIMARI, MUMBAI - 400072, INDIA
has been independently assessed by QRO and is compliant with the requirement of:
ISO 9001:2015
Quality Management System

For the following scope of activities:
DESIGN, MANUFACTURE & SUPPLY OF INDUSTRIAL VALVES

Date of Certificate: **28th February 2022** 2nd Surveillance Audit Due: **21st February 2024**
1st Surveillance Audit Due: **21st February 2023** Certificate Expiry: **21st February 2025**

Certificate Number: **30502022239Q**

QRO **EGAC** **IAF**

Head of Certification

Validity of this certificate is subject to annual surveillance audits which are mandatory as a follow up from time to time of the audit. In case surveillance audits are not carried out as scheduled the certificate shall be suspended/withdrawn. The validity of this certificate can be verified at www.qro.org. This certificate of registration is issued by Quality Research Organization (QRO) and shall be renewed/extended/renewed upon request.

India Office: (QRO) Certification LLP
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 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Our Expertise

- Center Disc Butterfly Valve
- Double Offset Butterfly Valve
- Triple Offset Butterfly Valve

End Types

- Wafer
- Lug
- Flanged

Center Disc Butterfly Valves

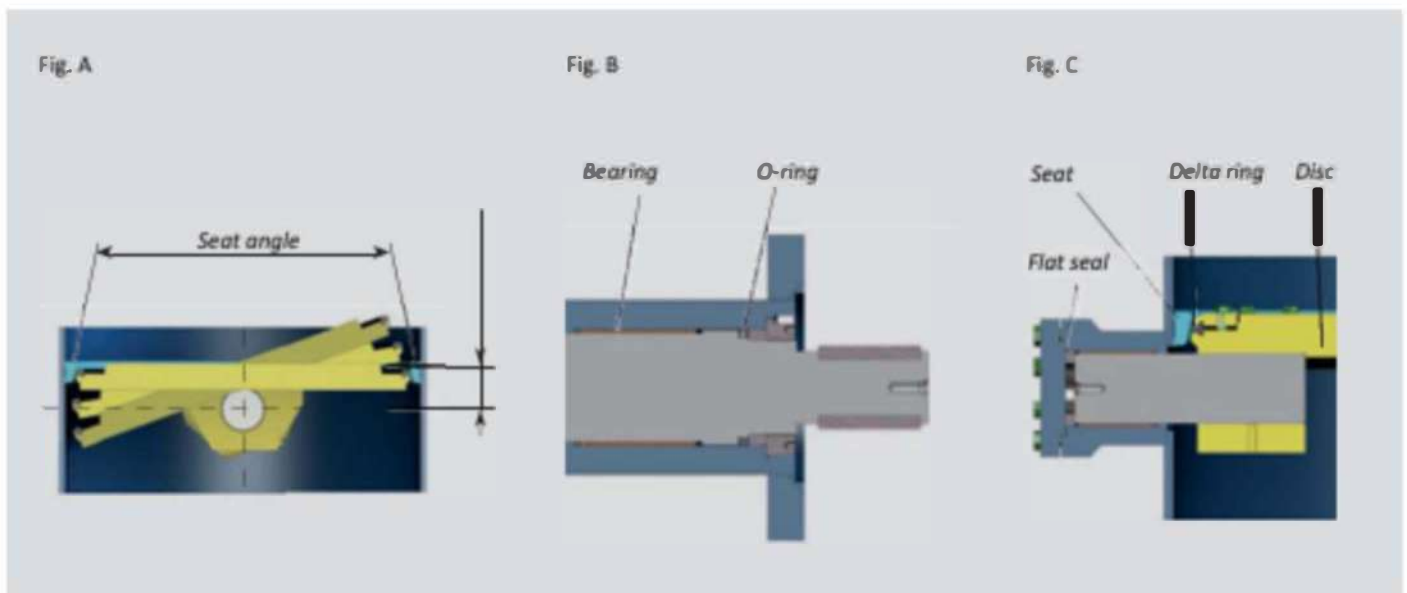
Applications :

Center disc butterfly valves are industrial valves, which are designed to fully open or close a passage of the working medium flowing through a pipeline. They can also be used for flow-control purposes. However, a 100% tightness of the valve cannot be guaranteed in a long-term use for control purposes



Working Medium :

- Waste and service water
- Drinking water
- Hot water steam
- Non-aggressive liquids and gases
(natural gas, CO-gas, petroleum products, etc.)



Operations :

- Manual Gear-Bos
- Electric Actuator
- Lever Operated
- Handwheel Operated
- Hydraulic Cylinder

Double Offset Butterfly Valves

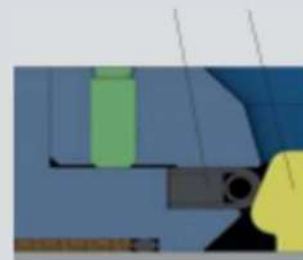
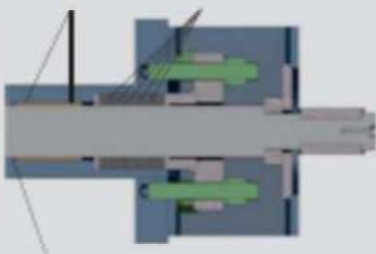
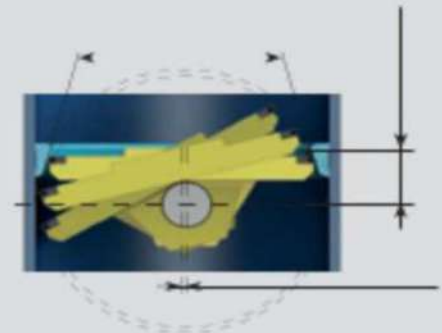
Applications :

Double-offset butterfly valves are industrial valves, which are designed to fully open or close the passage of the working medium flowing through a pipeline. They can also be used for flow-control purposes. However, a 100% tightness of the valve cannot be guaranteed in a long-term use for control purposes.



Working Medium :

- Waste and service water
- Drinking water
- Hot water steam
- Non-aggressive liquids and gases (natural gas, CO-gas, petroleum products, etc.)

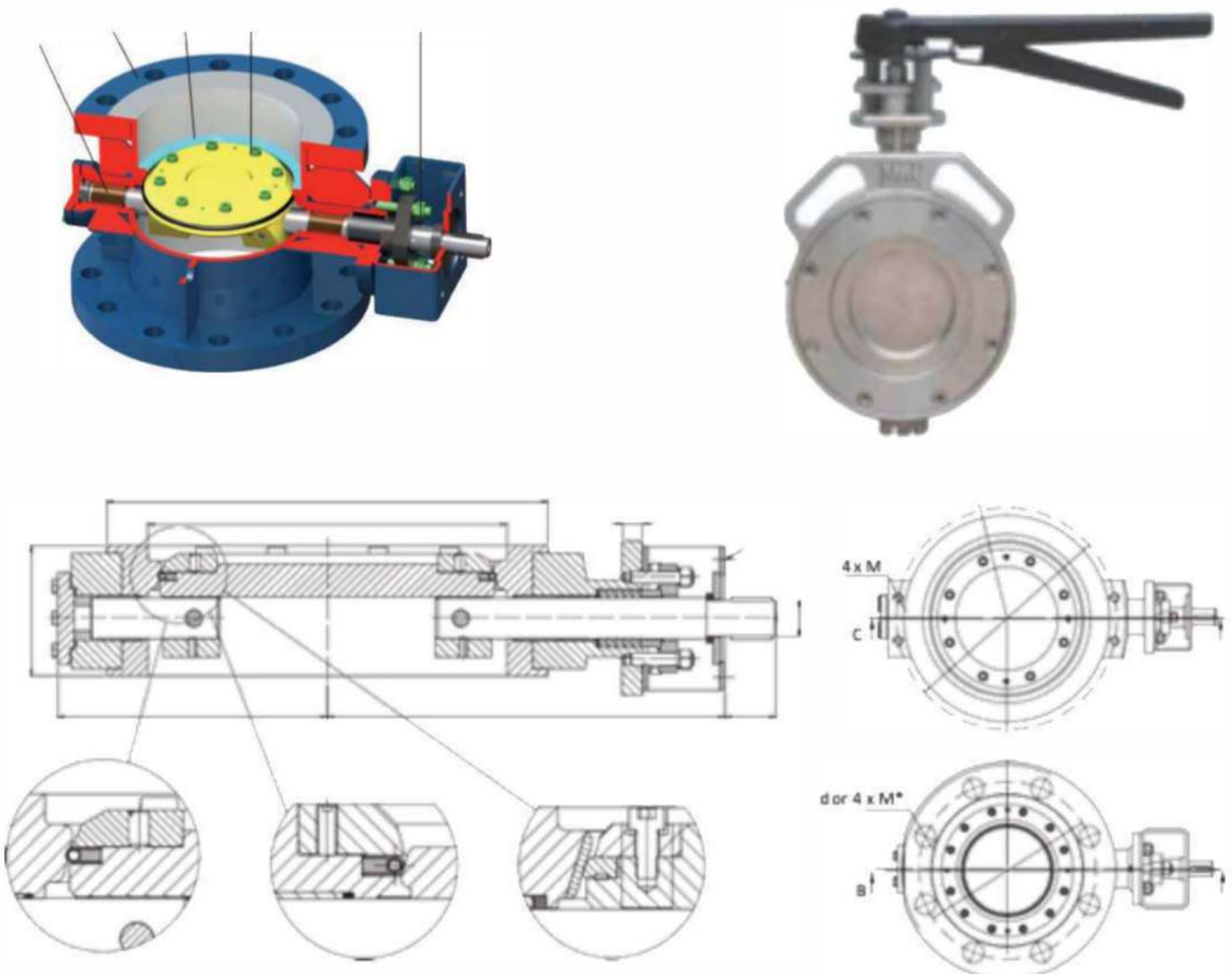


Operations :

- Manual Gear-Bos
- Electric Actuator
- Lever Operated
- Handwheel Operated
- Hydraulic Cylinder

Double Offset Butterfly Valves

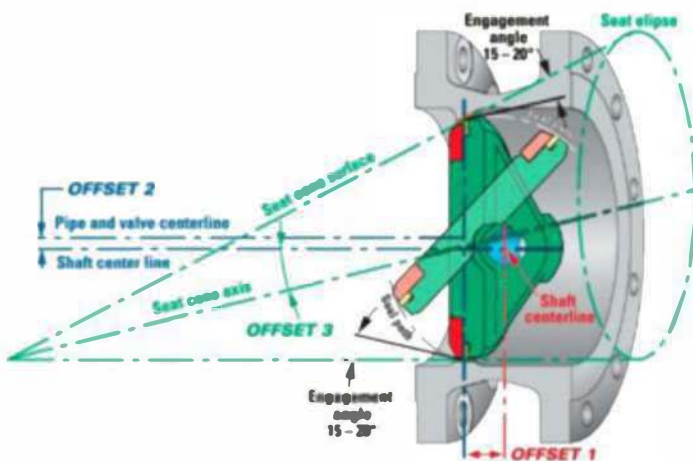
The double-offset butterfly valve is a valve that has 2 counterbalance contrasts and the concentric butterfly valve. The principal balance is the pole that is spotted not in the middle of the plate yet found on somewhat behind the circle. This balance will make the valve has a nonstop fixing surface on the circle. The second balance is the pole that placed not in the funnel fixates line yet found on somewhat in the right half of the focal point. This counterbalance will make the valve didn't touch the seat at all when it is completely opens (see delineation beneath). This plan will make the seat encounter a less grating than the concentric sort butterfly valve and accordingly will delay its lifetime.



Triple Offset Butterfly Valves

There are three offsets, two are placed in a similar position to the double offset butterfly valve, while the third offset is the geometry of the seating surface, creating a type of cone shape of the disc and seat. This cone angle along with the two eccentric shaft offsets allows the disc to seal against the seat without any friction.

- This seat design also allows for uniform sealing, and thus a tight shutoff in a metal seat design lower torque option (easier to automate), than alternative style metal seated valves.
- Triple offsets are generally used in applications similar to gate valves, where a metal seat is required, and tight shutoff and/or quarter turn actuation is desired. Applications like high pressure steam superheated- steam, high temperature gases and oils, high temperature applications are good for this type of valve because a metal seat is required over a soft seat.



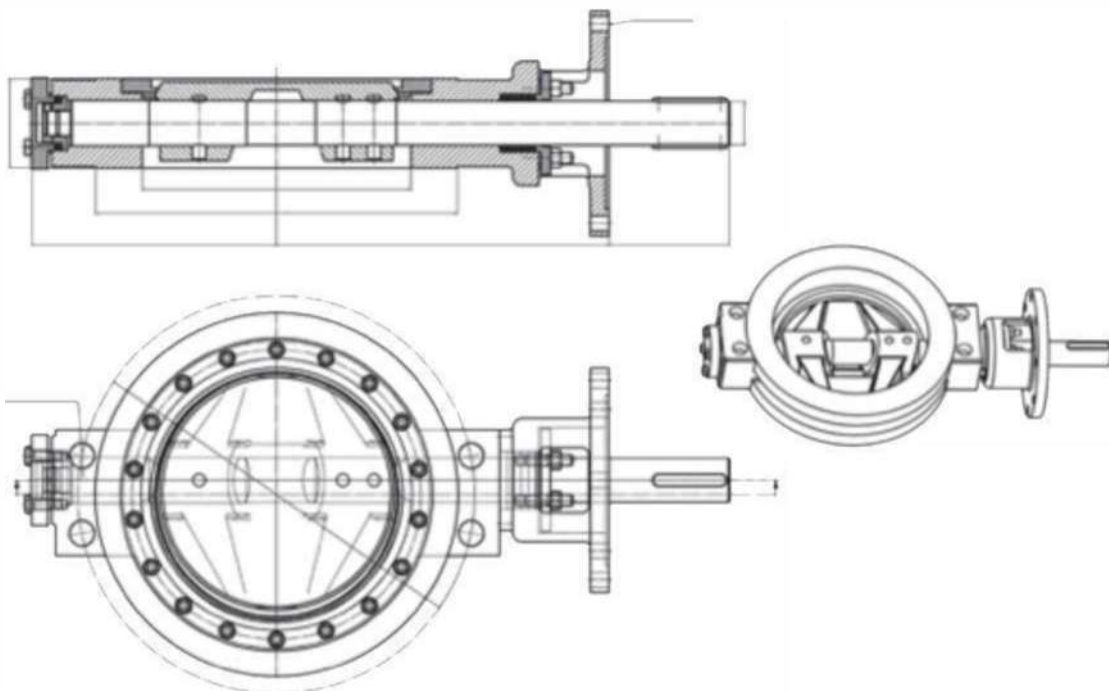
Triple Offset Butterfly Valves

Applications :

- A Butterfly valve is used in many different fluid services and they perform well in slurry applications also. They can be used in liquids, steam, cryogenics, cooling water, air, gasses, firefighting & Vacuum services.
- Butterfly Valve is used in all type of industries application even in High-pressure and temperature services

Advantages :

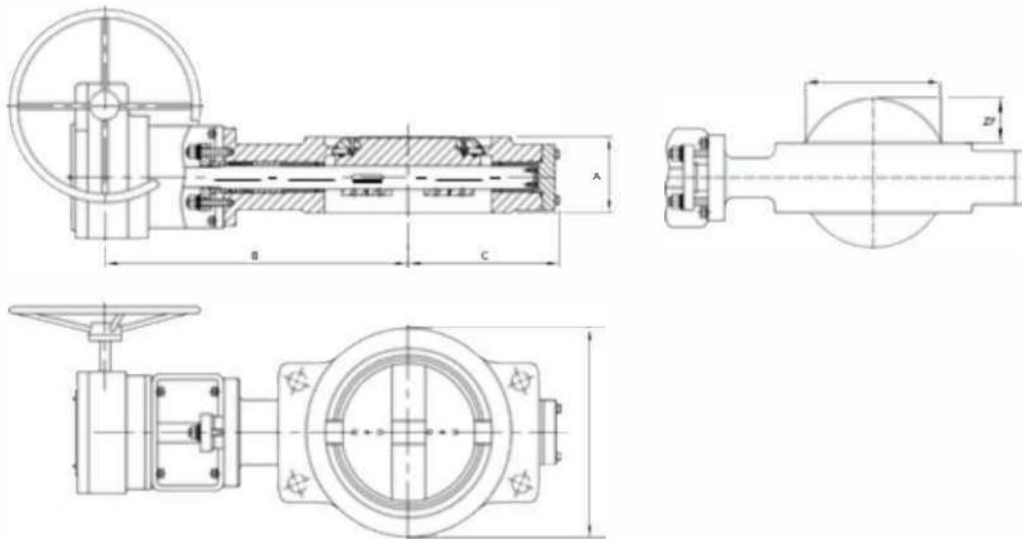
- Butterfly Valve is suitable for large valve applications due to Compact, lightweight design that requires considerably less space, as compared to other valves
- Due to a quick operation, it needs less time to open or close
- The maintenance costs are usually low compared to other valve types
- Valve with Non-metallic seating can be used in chemical or corrosive media



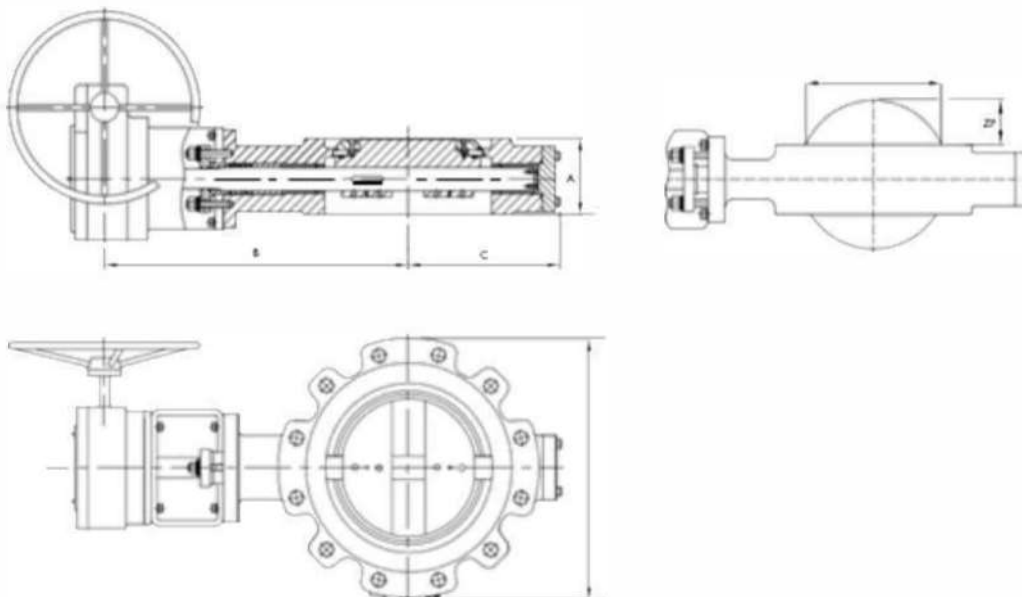
Triple Offset Butterfly Valves

Face-to-face dimensions of Triple-offset Butterfly Valves in Wafer Flangeless and Wafer Lugged constructions conform to API 609. The valves are compact in design and significantly lighter than comparable gate valves

Wafer Type :



Lug Type :



ASME 150# Dimentions (MM)

SIZE		A	L	E	K	PCD		N		H	
INCH	MM							No Of Holes		Hole Dia	
						150 #	PN – 10	150 #	PN –10	150 #	PN – 10
2"	50	97	43	125	39.8	120.7	125	4	4	16	18
2 ½"	65	105	46	146	50.6	139.7	145	4	4	19	18
3"	80	139	48	150	68.4	152.4	160	4	8	19	18
4"	100	170	54	172	90.3	190.5	180	8	8	19	18
5"	125	186	57	188	110.8	215.9	210	8	8	19	18
6"	150	216	57	209	138.7	214.3	240	8	8	22	22
8"	200	269	64	240	183.2	298.5	295	8	8	22	22
10"	250	324	71	272	232.6	362.0	350	12	12	22	22
12"	300	381	81	310	277.7	431.8	400	12	12	25.4	22
14"	350	413	92	405	307	476.2	460	12	16	25.4	22
16"	400	470	102	456	354	539.7	515	16	16	28.4	26
18"	450	534	114	491	405	577.8	565	16	20	28.4	26
20"	500	584	127	536	466.3	635.0	620	20	20	32	26
24"	600	695	154	634	522.8	749.3	725	20	20	36	30
26"	650	715	165	720	605	806		24		35.1	
28"	700	805	165	725	660.5	864	840	28	24	35.1	30
30"	750	857	191	755	715	914.4		28		35.1	
32"	800	911	191	805	767	978	950	28	24	41.1	33
36"	900	1022	203	860	864.2	1086	1050	32	28	41.1	33
40"	1000	1130	217	970	890	1200	1160	36	28	41.1	36
44"	1100	1250	254	1020	1040	1314		40		41.1	
48"	1200	1360	254	1080	1118	1422	1380	44	32	41.1	39

Wafer & Lug ASME 300# Dimentions (MM)

SIZE		A	B	E	K	PCD	N	H
INCH	MM						No Of Holes	Hole Dia
						300 #		300 #
2"	50	97	43	125	39.8	127	8	18
2 ½"	65	105	46	146	50.6	149.2	8	22
3"	80	132	48	158	68.4	168.3	8	22
4"	100	172	54	172	90.3	200	8	22
5"	125	186	59	200	110.8	235	8	22
6"	150	216	59	220	138.7	269	12	22
8"	200	270	73	285	180.3	330.2	12	26
10"	250	326	83	300	228.6	387.4	16	28.6
12"	300	381	92	341	271.8	450.8	16	32
14"	350	413	117	457	307.3	514.4	20	32
16"	400	470	133	500	348.0	571.5	20	36
18"	450	545	149	550	396.2	628.6	24	36
20"	500	584	159	600	436.9	685.8	24	36
24"	600	692	692	700	523.2	812.8	24	42

Material of Construction :

Part Name	Material
Body	D.I. / S.G.I. / WCB / CF8 / CF8M / CF3 / CF3M / Duplex / Super Duplex
Disc	D.I. / S.G.I. / WCB / CF8 / CF8M / CF3 / CF3M / Duplex / Super Duplex
Seat	PTFE / RPTFE / GFT / CFT
Steam	S.S.410/S.S.304/S.S.316/ Duplex / Super Duplex
Bushing	PTFE / Carbon Filled PTFE
Seals	EPDM / Nitrile / Viton / PTFE

Seat Temperature Range :

Seat Type	Temperature Range	
	Min.	Max.
PTFE	-13° F (-25°C)	210° F (100°C)
RPTFE	-13° F (-25°C)	250° F (120°C)
GFT	-58° F (-50°C)	356° F (180°C)
CFT	-23° F (-5°C)	392° F (200°C)
PEEK	-4° F (-20°C)	250° F (120°C)

Testing Pressure :

SIZE	RATING	SHELL	SEAT
40MM TO 600MM	PN – 16	24	16
	PN – 10	17	10
	150 #	33	25
700MM TO 1200MM	PN – 10	10	17

Specifications of Butterfly Valves

- Valve Design : Wafer Type Butterfly Valves/ Lug Type Butterfly Valves/ High Performance Butterfly Valves /Seatless Butterfly Damper / Double Flanged Centric Disc Butterfly Valves / Double Flanged Valves
- Operations : Lever Operated / Gear Operated / Electrical / Pneumatic / Hydraulic Actuator
- Mounting Pad /Top Flange Drilling : As per ISO 5211 Part II

Manufacturing Standards

Face to Face	- BS 5155 / API 609 / IS 13095 (Wafer Short)
End Connection	- Wafer Type / Lug Type / Flanged End to suit ANSI / DIN / BS / JIS / IS
Testing Standard	- BS 5155 / BS 6755 (Part I) / API 598 / IS 13095



BVE BHARAT VALVES

EXCELLENCE THROUGH GENERATIONS

An ISO 9001 -2015 Certified Company

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