



KENT VALVE
CRITICAL PRESSURE & FLOW CONTROL

BUTTERFLY VALVE

**NPS 2" - 72" (DN50 - DN1800), ASME Class 150# - 1500#
API 609 / AWWA C504 / ASME B16.34 / BS EN - 593**



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED COMPANY

www.kentvalve.com



KENT VALVE PROFILE

KENT VALVE is a fast growing valve manufacturing Company. Our wide range of superior quality valves especially designed to control water flow, gas, steam, air, and oil. The perfect blend of deep domain knowledge, technology experience and quality valves have enabled us to become leaders in the valve industry. Our quality team and proficient engineers make sure that we are delivering quality products in market. Our skilled professionals and technology competency, coupled with a reliable manufacturing process allows us to deliver end-to-end flow solutions especially catered to the user's needs and requirements.

KENT VALVE is a professional engineering firm, offering a broad spectrum of technical products and solutions, especially Valves, Instruments, Analyzers and spares to the Oil and Gas, Power Plants, Refineries, Petrochemical, Marine, Pulp & Paper, Water Treatment, District cooling, Solar Power, Irrigation and General Industry sectors, We have a proven track record and a reputation for quality and reliability in the selection of Valves, Instruments and Analyzers. We do Service support and On- time delivery of the world's leading Brand names in Valves, Analyzers and Process Instruments, KENT VALVE holds stock of comprehensive range of world leading brands of Gate, Globe, Check, DBB valves and Ball valves, Control globe valves, Safety Relief Valves, Electric and Pneumatic Actuators, etc.

KENT VALVE is a multinational company with group manufacturing plants at India, The United Kingdom and Italy. Kent has it's headquarter in Millano, Italy. It has sales office in Mumbai, Dubai, Sharjah, Kuwait, Oman, Italy and UK Etc. For meeting the requirements of its customers globally. The plant infrastructure comprises of highly efficient machine shop with a high level of quality aspects. It covers all the business processes like Sales, Design & Development, Procurement, Planning, Manufacturing, Quality, Store, Dispatch, HR and Finance.

PRODUCT RANGE

- Gate, Globe & Check Valves – Bolted Bonnet
- Gate, Globe & Check Valves – Pressure Seal
- Gate, Globe & Check Valves – Forged
- Ball Valves – Floating Top Entry, Trunnion Mounted, Double Block & Bleed
- Butterfly Valves – Concentric, Offset, Double Offset and Triple Offset
- Dual Plate Check Valves
- Single Plate Check Valves
- Control Valves
- Pressure Safety Valves
- Instrumentation Valves – Ball, Needle, Plug, Gate, Globe and Check
- Quick Exhaust & Flow Control Valves
- Knife Edge Gate Valve
- Valve, Actuator & Automation system

MANUFACTURING FACILITIES





CERTIFICATIONS



INTEGRATED MANAGEMENT SYSTEM POLICY
(Integration of ISO 9001:2015, ISO 14001:2015, ISO 45001:2018)

Kent valve Pvt. Ltd. is committed to the Integrated Management System that complies with ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 standards. We shall uphold the principles of this policy and promote a positive culture to create safe, healthy and environment-friendly workplace. We shall ensure that people at workplace take responsibility for aspects of Quality, Environment, Occupational Health & Safety over which we have control. We acknowledge the global concern on climate change and hence recognize energy as one of the most important resources used.

We shall continually improve our Integrated Management System to enhance its performance by:

- Enhancing customer satisfaction through manufacturing and delivery of environment friendly, safe & energy efficient products and services of right quality and on right time;
- Selecting and building partnership with external providers of processes, products and services to create the co-ownership of goals and exhibiting high level of ethical values;
- Involving employees at all levels and enhancing their competence through training, awareness and skill enhancement to fulfil stakeholders expectations;
- Fulfilling and satisfying the applicable Statutory, Regulatory, Legal requirements and other requirements related to environment, occupational health and safety, energy efficiency, use and consumption;
- Setting Integrated Management System objectives and reviewing them periodically against the target to ensure their achievement by availability of information and necessary resources;
- Protecting environment by prevention of pollution and 'reduction-reuse-recycling' of wastes and ensuring its environment-friendly disposal;
- Identifying, eliminating, isolating and controlling hazards and risks to avoid incidents/ accidents and ill health;
- Encouraging and promoting consultation and participation of those working under the control of organization in all occupational health & safety related activities.

This policy shall be communicated to all employees and made available to interested parties.

Issue no. 02
Issue date: 17 May 2022



(Neyaz Khan)
Director



CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

KENT VALVE PRIVATE LIMITED
Plot No-B-85/4, Ambernath Additional MIDC,
Anand Nagar, Nr. ASB Company,
Ambernath, Thane - 421 506,
Maharashtra,
India



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Design and Manufacture of Industrial Valves, Actuators and Valve Automation Systems.

Certificate Registration No. 44 100 22393731
Audit Report No. 2.5-10841/2022

Valid from 25.08.2022
Valid until 24.08.2025
Initial certification 25.08.2022



Certification Body
at TÜV NORD CERT GmbH

Mumbai, 28.11.2023

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in




CERTIFICATE

Management system as per
ISO 14001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

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BUTTERFLY VALVES (BFV)



Kent Valves offers a comprehensive range of Butterfly Valves in a variety of body styles and materials to address critical process requirements in diverse industries such as hydrocarbon, power, chemicals & fertilizers, water, etc. The product range covers valves in ASME classes up to 1500, in sizes up to 72" (1800mm), in carbon steel, stainless steel, alloy steels, inconel, hastelloy and duplex suitable for temperatures from -196°C to 538°C. Based on client requirements, valves in higher pressure classes, larger sizes and other materials are also offered. The Butterfly Valves conform to API 609 / BS EN 593 and offer high integrity bi-directional sealing as per valve type.

PRODUCT RANGE

Valve Type	Pressure Rating	SIZE (NPS / DN)																					
		2 50	2 ½ 65	3 80	4 100	6 125	8 150	10 200	12 250	14 300	16 350	18 400	20 450	24 500	26 600	28 700	30 750	32 800	34 900	36 1000	38 1100	40 1050	42 1200
Concentric	Class 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Class 300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
Double Offset	Class 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Class 300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	Class 600			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	Class 150			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Triple Offset	Class 300			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
	Class 600			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	Class 900			✓	✓	✓	✓	✓	✓	✓	✓												
	Class 1500			✓	✓	✓	✓	✓	✓	✓													
Offset	Class 150			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Class 300			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									

*We also offer intermediate size and class as per client requirements.



DESIGN SPECIFICATION

Parameter		Compliance
Design	Concentric Type Double Offset Triple Offset	API 609 Category A / BS EN 593 / AWWA C504 API 609 CategoryB / BS EN 593 / AWWA C504 API 609 CategoryB / BS EN 593
Face to Face	Concentric Type Double Offset Triple Offset	API 609 Category A / BS EN 558 / AWWA C504 API 609 Category B / BS EN 598 / AWWA C504 API 609 Category B / BS EN 558
Pressure – Temperature Rating		ASME B 16.34
End Flange Details		ASME B 16.5 / ASME B 16.47**/ AWWA C207 / EN 1092-1* / EN1092-2
Butt – Weld End Details		ASME B 16.25
Inspection and Testing		API 598 / BS EN 12266-1/ AWWA C504 / API 607 / F70.2(Seat)

*End Flange Drilling as per PN 2.5 and above.

**For valves larger than 24" (600), the flange drill shall be as per ASME B16.47, Series A & B.

RTJ flanges are also offered as optional for Class 600 & above.

Kent Valves has the distinction of having obtained a number of national and international approvals.

Notable among these are:

- ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 certified.
- Specific company approvals from national and international oil majors and EPC contractors.
- CE marking as per PED 2014/68/EU.
- Indian Boiler Regulation (IBR) certification for boiler application can be provided.

Test Pressures for Standard Carbon Steel Valves

Every individual valves manufactured is inspected and pressure-tested to API 598 / BS EN 12266-1 / AWWA C504 as required for which test certificates are provided. The test pressure is selected as per material requirement specified in ASME B16.34

ASME Class	Hydrostatic Test Pressure in kg/cm ² (psig)		Pneumatic low pressure closure test pressure in kg/cm ² (psig)
	Shell	Seat	
150	30 (428)	22 (314)	7 (100)
300	79 (1125)	58 (825)	7 (100)
600	157 (2225)	115(1650)	7 (100)
900	235 (3350)	172(2450)	7 (100)
1500	391 (5575)	287(4075)	7 (100)
2500	651 (9275)	478(6800)	7 (100)

APPLICATION & FEATURES OF BUTTERFLY VALVE



Fully Replaceable Seal Seat

The seal set (laminated seal and the seat) are field replaceable with proven ease of serviceability and handling at site.



Friction Free Operation

The triple offset design ensures friction free seating avoiding rubbing between seal and seat during the closing operation.



Fugitive Emissions

The valve with special gland packing & live loading through Belleville springs satisfies the fugitive emission standard ISO 15848 & API 641. Validated from -196°C to 450°C.



Laminated Solid-Flexible Seal

The seal is of thin metal lamination interlaid with high density grafoil bringing resiliency in the metal seal.



Flexibility of Installation

Thrust washer supports the weight of the disc and shaft assembly. The valves are thus suitable for both vertical and horizontal installation.

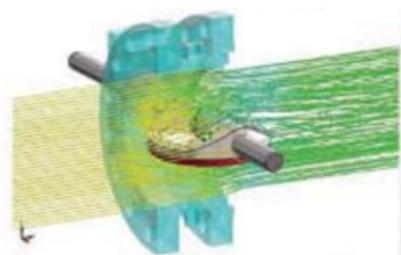


Anti-Blow Out Design

inherent anti-blow out design provides safety from shaft ejection. Meets norms of API 609.

Laminated Seal Out of Fluid Path

The design of the valve with laminated seal on the body ensures that the seal is not directly exposed to the high velocity fluid infringement.



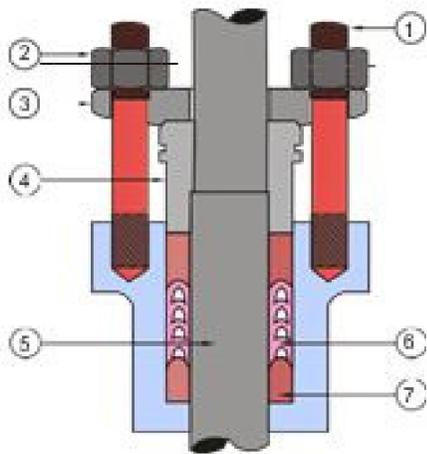
Wide Range of Flow Control

Flow characteristics ideal for modulation over a wide range of operation. Suitable for control valve service with positive isolation capabilities.

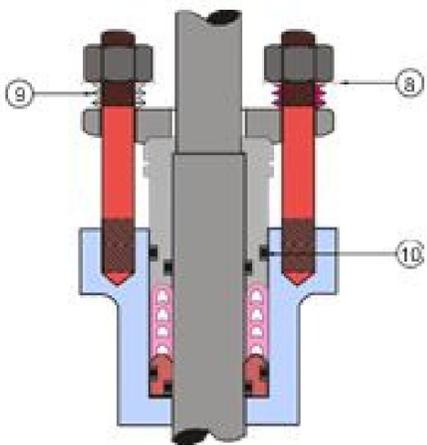


GLAND PACKING OPTIONS

Kent offers Single and Double set of V-PTFE rings (up to 200°C) and Grafoil Moulded rings (>200°C up to 600°C) as standard. Inverted V-fered for vacuum application with upper set of V-Rings positioned PTFE packings are of reverse direction. Low fugitive Emission packings are provided on the LFE packing arrangement request. comprises of live loaded packings. The packing gland is loaded with spring washers to maintain a continuous compressive lead to gland packings as shown in figure below:

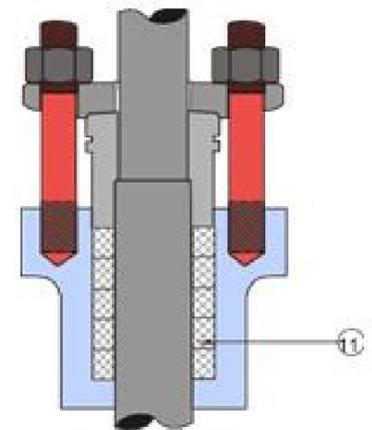


Single V-PTFE Gland Packing

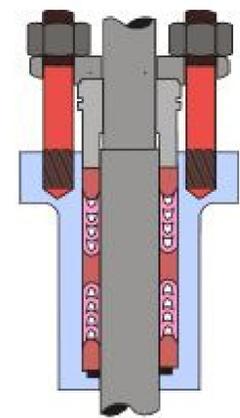


Single V-PTFE Spring Washer Loaded Gland Packing

Sr. No	Part Name
1	Gland Stud
2	Nut
3	Gland Flange
4	Gland Bush
5	Valve Shaft
6	V- RING PTFE Gland Packing
7	Packing Spreader (Rear)
8	Washer
9	Spring Washer
10	"O" Ring
11	Grafoil Gland Packing



Single Grafoil Packing

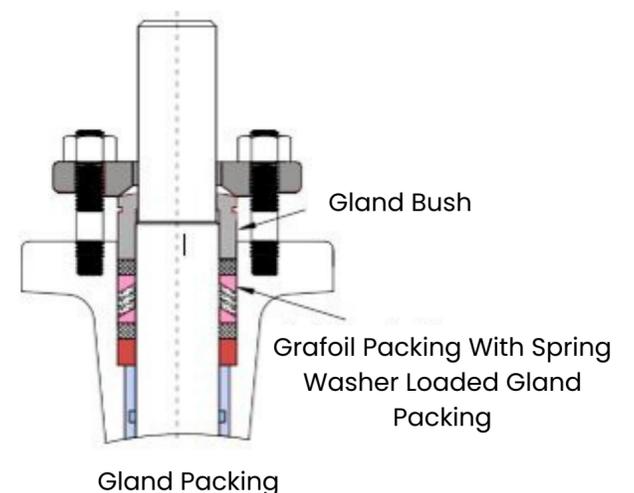


Inverted V-PTFE Gland Packing For Vacuum Application

Low Emission Gland Packing

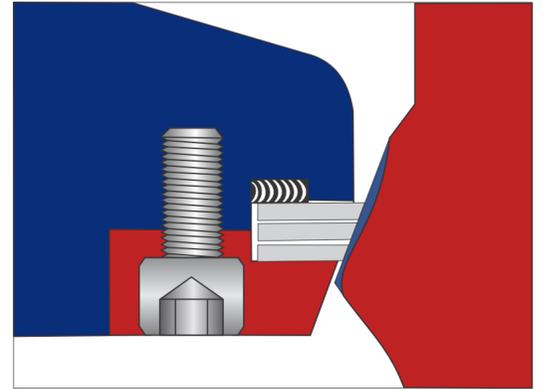
Kent provides live loading gland packing arrangement as a standard feature, for series butterfly valves.

- 1) Short packing chamber.
- 2) Stem bearings are longer enough to take side loads of stem so that its movement remains true concentric. This facilitates maximum effective shaft sealing.
- 3) Disc springs in the gland flange provide constant live loading on packing.

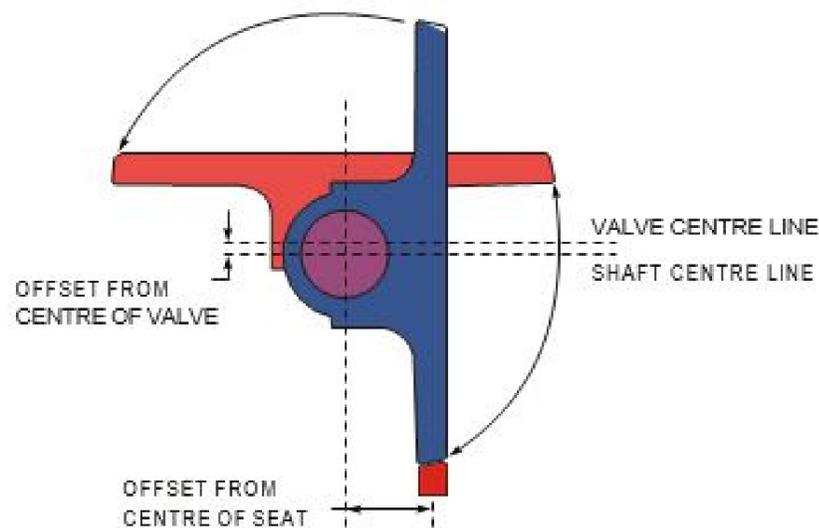


The Laminated Seal

The torque transmitted by the shaft to the disc generates uniform seating forces on the entire circumference of disc seal. The laminated seal flexes & gets energized in the direction of seal all over its entire circumference. The resiliency of the disc seal allows valve body and disc to expand or contract without producing any jamming effect under the fluctuating temperature range. The torque generated radial compressive force, equally distributed around the circumference, provides bi-directional tight shut-off.

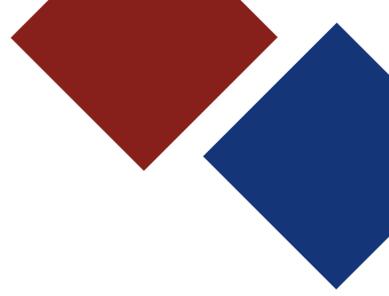


Double Offset



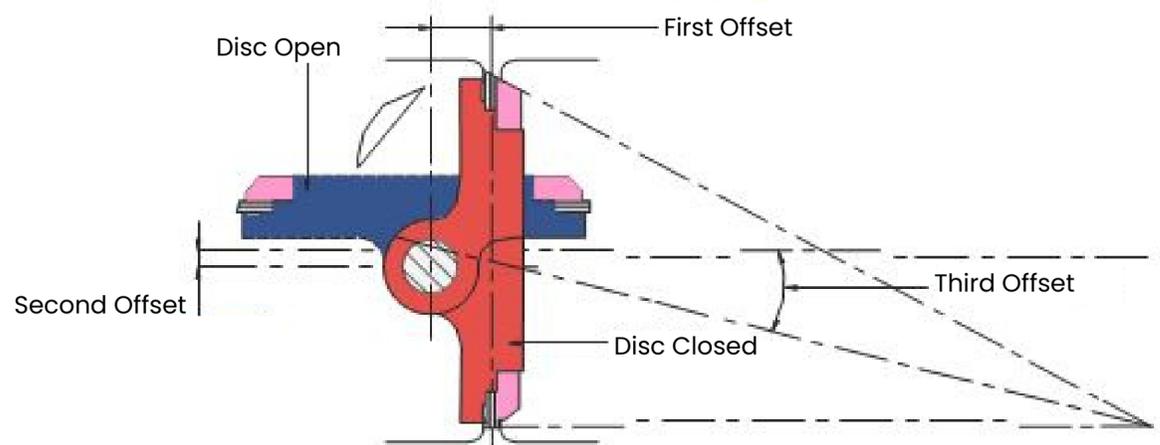
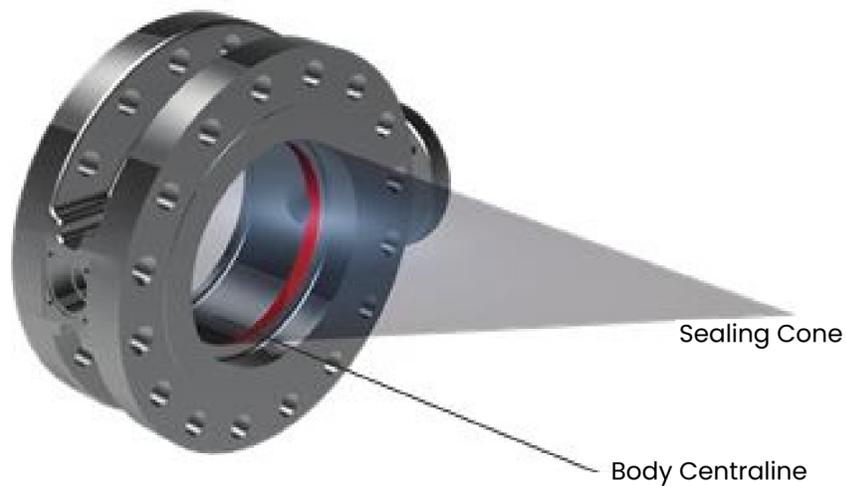
FEATURES

- Valve body is solid, heavy duty, seat retainer construction allows gasket conforming to API 609.
- Optimal disc geometry and cavity free flow passage offers minimum flow resistance and high Cv values.
- Heavy duty pins connecting valve shaft to disc avoids lost motion under high torque conditions.
- Long life, easy field replaceable seat placed in body, away from flow stream, provides bubble tight shut-off. Valves are equally suitable for control and tight shut-off applications.
- Low friction bearings provide maximum radial support for higher shaft loads. The PTFE lined bearings having low co-efficient of friction minimizes operating torque and reduces actuator size. They are slip in-place type, easy for assembly and disassembly.
- Seat option includes PTFE, EPDM, viton soft seats and flexible metal seats to suit variety of fluids and applications.
- Recommended for critical applications including high temperature services, throttling steam control, liquor services, gas applications, vacuum applications, corrosive fluids, refinery services, chemical services, hydrocarbon services, etc.



Triple Offset Geometry

Triple offset disc configuration the disc seal makes contact with body seat, only at the final shut-off position without rubbing or galling with each other. Tight shut-off is achieved with the torque on the shaft.



FIRST OFFSET

The shaft is offset with seat axis. This offset makes complete seating contact around the entire seat. With this design the disc & seat remain in interference with each other for a larger rotation of valve disc, hence does not allow use of metal seats.

SECOND OFFSET

The shaft centre is offset with the valve & pipe line. This offset creates a cam-effect to the movement of disc while opening & closing of valve between disc seal & seat ring. The friction between seat & seal reduces to a great extent. This allows use metal seats & make double offset butterfly valves to a wider range of applications. However, the metal seats need to be highly flexible to avoid jamming.

THIRD OFFSET

The third offset is the axis of seat cone angle made inclined to the centre line of valve bore. The seat cone is offset to shaft centerline. This offset ensures 'last position' contact between disc seal & seat ring during closing & opening. The friction between seat & seal reduces to zero. The triple offset mechanism is ideally suited for metal to metal seated valves providing bubble tight shut-off performance under high temperature & fire safe applications.



TRIPLE OFFSET FEATURES

- Torque generated metal to metal sealing provide bi-directional tight shut-off as per requirement of API 598, API 6D & FCI 70.2 (class VI).
- Triple offset geometry completely eliminates seat to seal rubbing action through out 90° disc rotation. The disc seal makes contact with the body seat only at the final shut-off position. Satellite hard facing on disc seal can be provided for abrasive services.
- Complete metal construction including seal & seat with tight shut performance enable the design to be inherently fire safe.
- Double blow-out proof stem retention ensures greater safety and comply the requirements of API 609 . Large diameter one piece shaft construction provides better disc alignment & smooth disc rotation between 0-90 °. The shaft is connected to the disc through keys & pin to absorb differential expansion due to temperature differential.
- The shaft is guided with two long bearings which are hard-chrome plated or satellite depending on applications.
- Bearing protection seals are provided optionally for gas applications containing suspended particles.
- Low emission gland packing, shaft & stuffing box finished with excellent finish live loaded packing provided low emission shaft sealing.
- Stainless steel metal rings with in between grafoil layers are carefully assembled. The laminated resilient metal seals are suitable for temperature up to 1000 °F (538°C).
- The seal mounted on the body always have corrosive effects of the flowing media.
- Both seat & seal are field replaceable with our special tools.
- Failure - proof bolting system of seat & seal to facilitate the mounting of seat & seal in one & right position only.
- Wide gaskets for seat & seal to eliminate leakage past the face of seat or seal under high temperature conditions.
- In built truant mechanism of disc prevents decentralization of disc under high temperature & pressure conditions.
- Rigid disc construction minimizes disc deflection.
- Positive external valve position indication.
- Heavy duty operator mounting bracket with ISO mounting facility for variety of actuator models.
- Materials conforming to NACE available on request.

BODY / DISC MATERIALS

Kent cast steel butterfly valves are offered in a variety of body materials to suit to different requirements and applications. These materials include carbon steel (standard), alloy steel, stainless steels, inconel, hastelloy and duplex. For other materials of construction, refer to Kent Valves.

MATERIAL CLASSIFICATION	ASTM SPECIFICATION	WORKING TEMPERATURE
Carbon Steel	ASTM A 216 Gr. WCB	-29° C to 427° C (-20° F to 800° F)
1 ¼ Cr – ½ Mo	ASTM A 217 Gr. WC6	-29° C to 595° C (-20° F to 1100° F)
2 ¼ Cr – 1 Mo	ASTM A 217 Gr. WC9	-29° C to 595° C (-20° F to 1100° F)
5 Cr – ½ Mo	ASTM A 217 Gr. C5	-29° C to 650° C (-20° F to 1200° F)
9 Cr – 1 Mo	ASTM A 217 Gr. C12	-29° C to 650° C (-20° F to 1200° F)
9 Cr – 1 Mo – V	ASTM A 217 Gr. C12A	-29° C to 650° C (-20° F to 1200° F)
Low – Temperature Steel	ASTM A 352 Gr. LCB / ASTM A 352 Gr. LCC	-46° C to 345° C (-50° F to 650° F)
Austenitic Stainless Steel 18 Cr – 8 Ni (Type 304)	ASTM A 351 Gr. CF8	-196° C to 650° C (-320° F to 1200° F)
Austenitic Stainless Steel 16 Cr – 12 Ni – 2 Mo (Type 316)	ASTM A 351 Gr. CF8M	-196° C to 650° C (-320° F to 1200° F)



CONCENTRIC BUTTERFLY VALVE STANDARD MATERIAL OF CONSTRUCTION

Sl. No.	Description	Carbon Steel				Alloy Steel		
		WCB	WCC	LCB	LCC	C5	WC6	WC9
1	Body	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
2	Disc	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
3	Seal Ring	EPDM / NBR / BUNA - N / Viton / Neoprene						
4	Upper Stem	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410
5	Lower Stem	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410
6	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating						
7	Stem O -Ring	EPDM / NBR / BUNA - N / Viton/ Neoprene						
8	Disc Locking Bolt	A 193 Gr. B8M / A 194 Gr. 8M						
9	End Plug	Carbon Steel / Stainless Steel						
10	Packing	PTFE / Grafoil / PTFE V - Ring						
11	Gland Bush	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410

SR. No.	Description	Stainless Steel						Duplex Stainless Steel		
		CF8	CF8M	CF3	CF3M	CN7M	CF8C	6A	5A	4A
1	Body	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
2	Disc	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
3	Seal Ring	EPDM / NBR / BUNA - N / Viton / Neoprene								
4	Upper Stem	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F347	A 182 Gr. F53	A 182 Gr. F51
5	Lower Stem	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F347	A 182 Gr. F53	A 182 Gr. F51
6	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating								
7	Stem O -Ring	EPDM / NBR / BUNA - N / Viton/ Neoprene								
8	Disc Locking Bolt	A 193 Gr. B8M / A 194 Gr. 8M								
9	End Plug	Carbon Steel / StainlessSteel								
10	Packing	PTFE / Grafoil / PTFE V - Ring								
11	Gland Bush	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F55	A 182 Gr. F53	A 182 Gr. F51

DOUBLE OFFSET BUTTERFLY VALVE STANDARD MATERIAL OF CONSTRUCTION



Sl. No.	Description	Carbon Steel				Alloy Steel		
		WCB	WCC	LCB	LCC	C5	WC6	WC9
1	Body	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
2	Disc	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
3	Seal Ring	EPDM / NBR / BUNA - N / Viton / Neoprene / PTFE / RPTFE / PEEK						
4	Retainer Ring	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304
5	End Cover	A 105	A 105	A 350 Gr. LF2	A 350 Gr. LF2	A 182 Gr. F5	A 182 Gr. F11	A 182 Gr. F22
6	End Cover Gasket	CAF / SPW 304+ Grafoil Filler / SPW 316 + Grafoil Filler						
7	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating						
8	Packing	PTFE / Grafoil / PTFE V - Ring						
9	Gland Flange	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
10	Gland Stud & Nut	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8
11	Allen Bolt Retainer Ring	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8
12	Shaft	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410

SR. No.	Description	Stainless Steel						Duplex Stainless Steel		
		CF8	CF8M	CF3	CF3M	CN7M	CF8C	6A	5A	4A
1	Body	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
2	Disc	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
3	Seal Ring	EPDM / NBR / BUNA - N / Viton / Neoprene / PTFE / RPTFE / PEEK								
4	Retainer Ring	A 240 T 304	A 240 T 316	A 240 T 304	A 240 T 316					
5	End Cover	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F55	A 182 Gr. F53	A 182 Gr. F51
6	End Cover Gasket	CAF / SPW 304+ Grafoil Filler / SPW 316 + Grafoil Filler								
7	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating								
8	Packing	PTFE / Grafoil / PTFE V - Ring								
9	Gland Flange	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF8	A 351 Gr. CF8M					
10	Gland Stud & Nut	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M
11	Allen Bolt Retainer Ring	A 193 Gr. B8	A 193 Gr. B8M	A 193 Gr. B8	A 193 Gr. B8M					
12	Shaft	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F55	A 182 Gr. F53	A 182 Gr. F51



TRIPLE OFFSET BUTTERFLY VALVE STANDARD MATERIAL OF CONSTRUCTION

Sl. No.	Description	Carbon Steel				Alloy Steel		
		WCB	WCC	LCB	LCC	C5	WC6	WC9
1	Body	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
2	Body Seat	13% Cr. / Stellite 6 / Stellite12 / Stellite 20 / Stellite 21						
3	Disc	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
4	Seal Ring	SS 304 + PTFE / SS 316 + PTFE / SS 304 + Grafoil / SS 316 + Grafoil / SS 304 + RPTFE / SS 316 + PTFE / SS 304 + PEEK / SS 316 + PEEK						
5	Retainer Ring	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304	A 240 T 304
6	End Cover	A 105	A 105	A 350 Gr. LF2	A 350 Gr. LF2	A 182 Gr. F5	A 182 Gr. F11	A 182 Gr. F22
7	End Cover Gasket	CAF / SPW 304+ Grafoil Filler / SPW 316 + Grafoil Filler						
8	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating						
9	Packing	PTFE / Grafoil / PTFE V - Ring						
10	Gland Flange	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
11	Gland Stud & Nut	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8 / A 194 Gr. 8
12	Allen Bolt Retainer Ring	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8	A 193 Gr. B8
13	Shaft	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410	A 276 T 410

SR. No.	Description	Stainless Steel						Duplex Stainless Steel		
		CF8	CF8M	CF3	CF3M	CN7M	CF8C	6A	5A	4A
1	Body	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
2	Disc	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351Gr CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
3	Seal Ring	EPDM / NBR / BUNA - N / Viton / Neoprene / PTFE / RPTFE / PEEK								
4	Retainer Ring	A 240 T 304	A 240 T 316	A 240 T 304	A 240 T 316	A 240 T 316	A 240 T 316	A 240 T 316	A 240 T 316	A 240 T 316
5	End Cover	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr.F20	A 182 Gr.F347	A 182 Gr.F55	A 182 Gr.F53	A 182 Gr.F51
6	End Cover Gasket	CAF / SPW 304+ Grafoil Filler / SPW 316 + Grafoil Filler								
7	Bearing Bush	Brass / Bronze / 17 - 4 PH / SS 304 + PTFE Coating/ SS 316 + PTFE Coating								
8	Packing	PTFE / Grafoil / PTFE V - Ring								
9	Gland Flange	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF8M	A 351 Gr. CF8M	A 351 Gr. CF8M	A 351 Gr. CF8M	A 351 Gr. CF8M
10	Gland Stud & Nut	A 193 Gr. B8/ A 194 Gr. 8	A 193 Gr. B8M/ A 194 Gr. 8M	A 193 Gr. B8 / A 194 Gr. 8	A 193 Gr. B8M / A 194 Gr.8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M	A 193 Gr. B8M / A 194 Gr. 8M
11	Allen Bolt Retainer Ring	A 193 Gr. B8	A 193 Gr. B8M	A 193 Gr. B8	A 193 Gr. B8M	A 193 Gr. B8M	A 193 Gr. B8M	A 193 Gr. B8M	A 193 Gr. B8M	A 193 Gr. B8M
12	Shaft	A 182 Gr. F304	A 182 Gr. F316	A 182 Gr. F304L	A 182 Gr. F316L	A 182 Gr. F20	A 182 Gr. F347	A 182 Gr. F55	A 182 Gr. F53	A 182 Gr. F51



CONCENTRIC BUTTERFLY VALVE (COB)



Kent Concentric Butterfly Valves with its unique features are design, developed and manufactured to have optimal mix of structural stability & flow efficiency seating coupled with advantage of light weight, compact design and ease of operation. The valve is designed such that they provide leak tight seals.

The valves are provided with integrally moulded elastomer body liner to provide perfect seating and complete isolation of body material from media to prevent it from any corrosive and abrasive impact of fluid. The body liner material can be provided to suit specific fluid service for long maintenance free life.

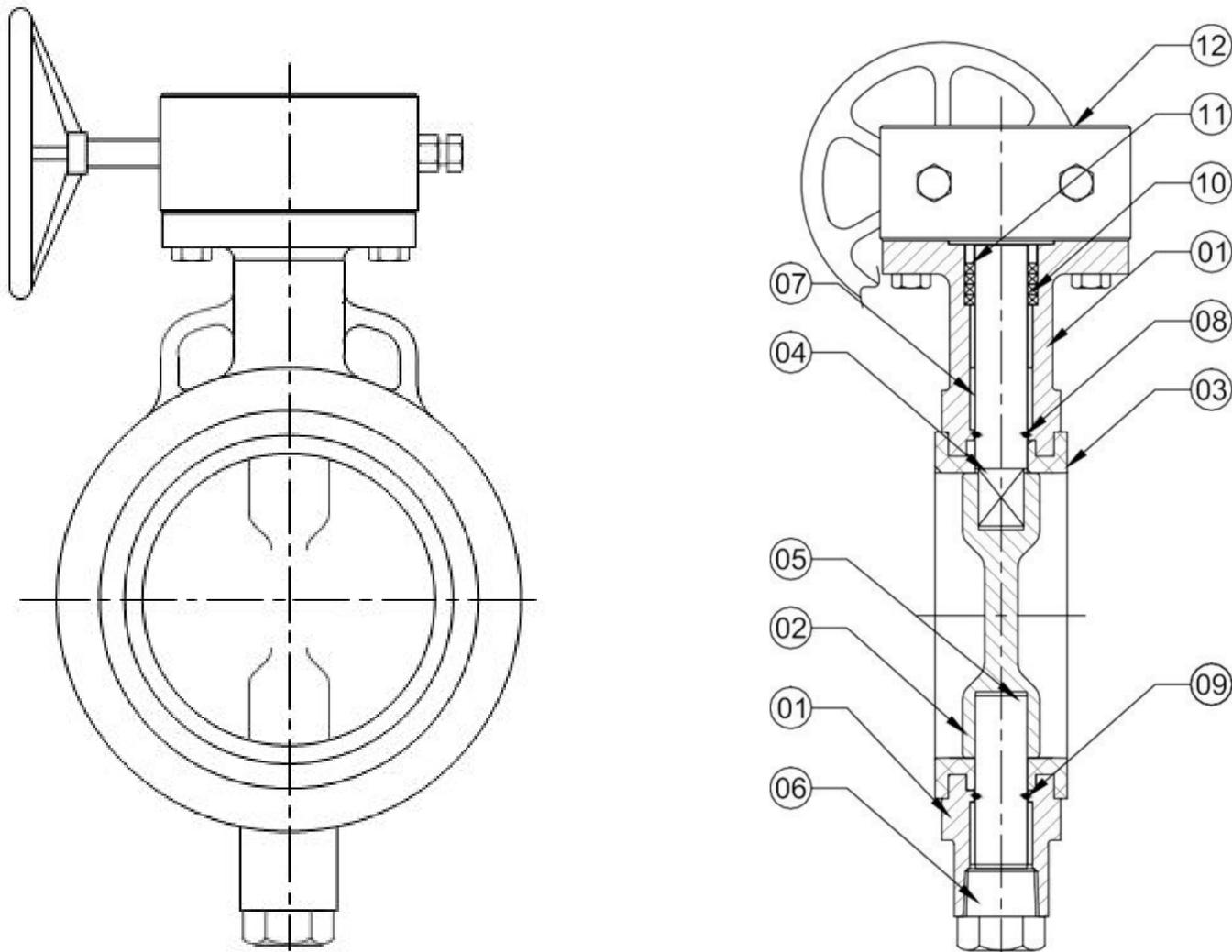
The valves are easy to install in any position between horizontal to vertical piping. No gaskets are required as the body liner acts as a seal between the valves body and the mating pipe flanges.





CONSTRUCTION OF CONCENTRIC BUTTERFLY VALVE

150# / 300#

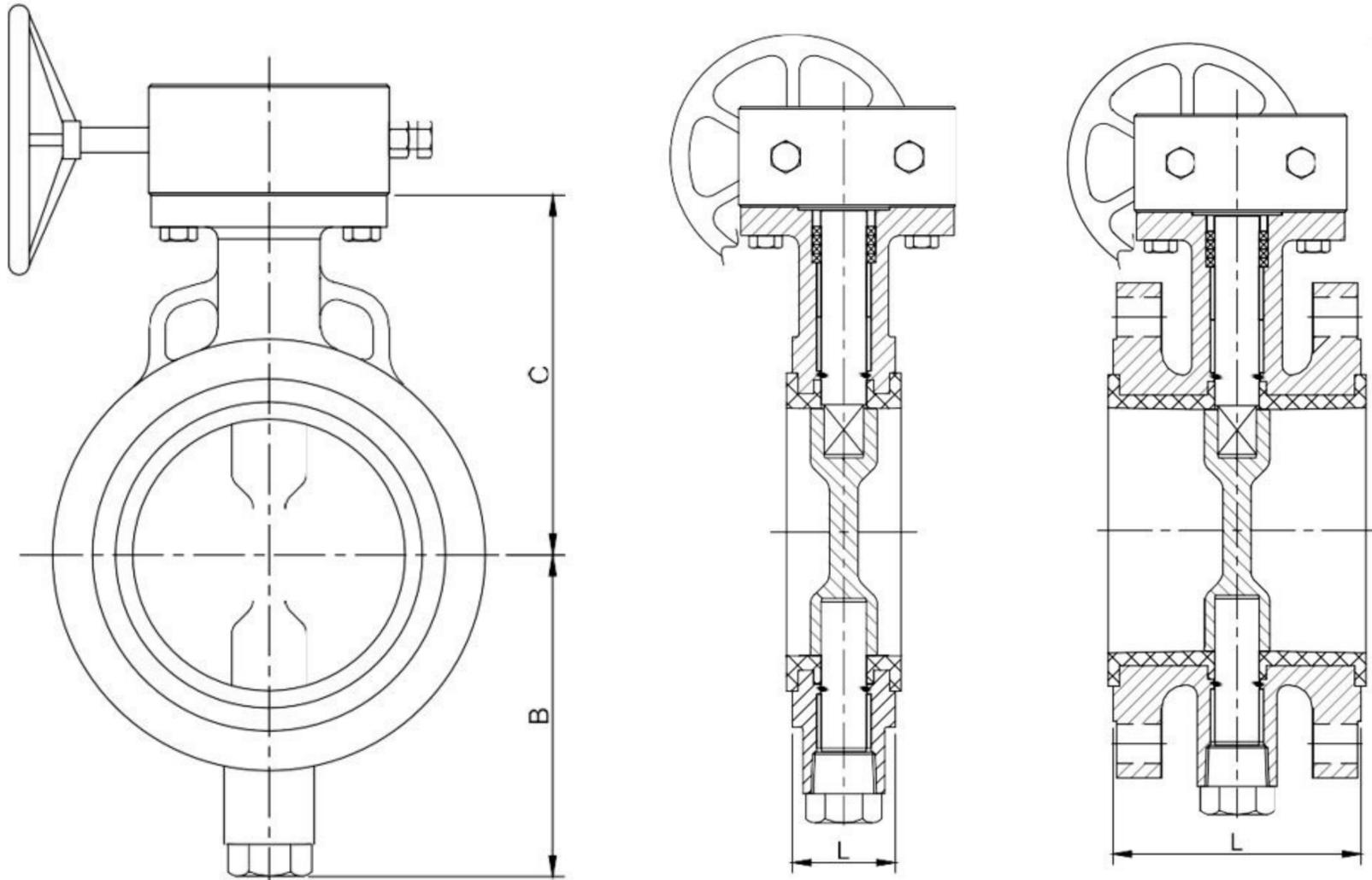


SL. NO.	DESCRIPTION	TYPICAL MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Disc	ASTM A 351 Gr. CF8
3	Seat ring	EPDM
4	Upper Stem	ASTM A 276 T 410
5	Lower Stem	ASTM A 276 T 410
6	Eng Plug	Carbon Steel
7	Bearing Bush	SS 304 + PTFE Coating
8	Upper Stem - O Ring	EPDM
9	Lower Stem - O Ring	EPDM
10	Gland Packing	PTFE
11	Gland Bush	ASTM A 276 T 410
12	Operator	Gear Type



CONCENTRIC TYPE

150# (API 609 / BS 593)



DIMENSION TABLE, CLASS 150

SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	114	46	46	110	135	12	5	9
4	100	127	52	52	130	155	16	6	12
6	150	140	56	56	155	180	23	9	17
8	200	152	60	60	185	210	37	14	24
10	250	165	68	68	225	250	54	30	37
12	300	178	78	78	265	290	80	44	58
14	350	190	78	78	300	315	105	50	80
16	400	216	102	102	325	355	146	72	127
18	450	222	114	114	345	375	173	95	132
20	500	229	127	127	390	420	206	120	217
24	600	267	154	154	445	475	323	210	370

- ★ 26" & above size design as per client requirement.
- ★ Class 300 size design on request.

GO : Gear Operated , FL : Flanged , BW : Butt weld , WH : Handwheel
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



DOUBLE OFFSET BUTTERFLY VALVE (DOB)

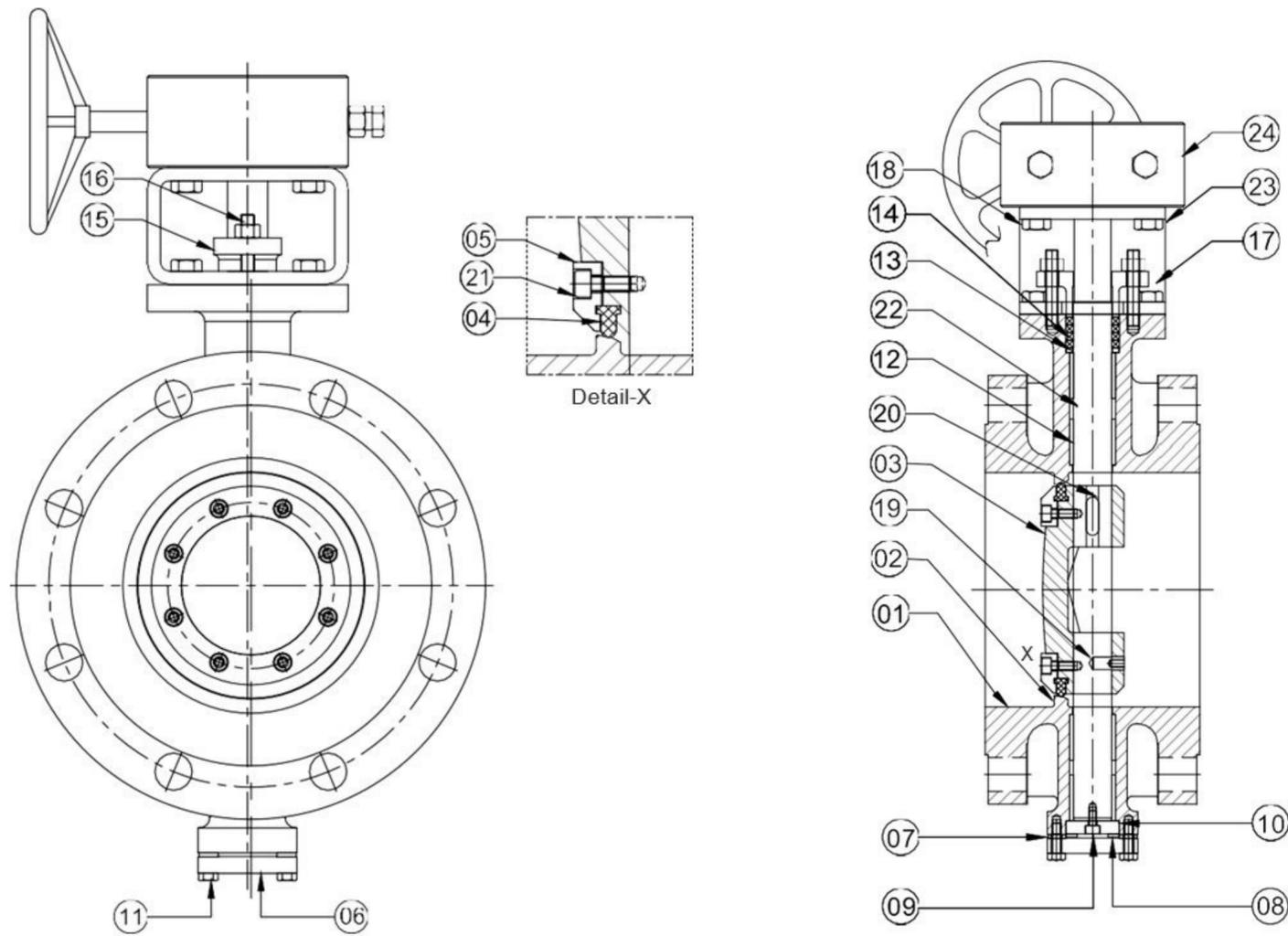


The Double Offset design of Kent Valve assures reduced seat wear and bidirectional, zero leakage shut-off throughout the full pressure range. At the initial point of disc opening, the offset disc produces a cam-like action, for smooth unseating of the disc from the seat. This cam-like action reduces seat wear and eliminates seat deformation when the disc is in the open position. When open, the disc does not contact the seat, therefore seat service life is extended and operating torques are reduced. As the valve closes, the cam-like action converts the rotary motion of the disc to a linear type motion to effectively push the disc onto the seat. The wiping action of the disc against the seat prevents undesirable material build-up from slurries or suspended solids. The soft seated valves are produced with zero leakage and metal seated valves are manufactured with leakage rate as specified in API 598.





CONSTRUCTION OF DOUBLE OFFSET BUTTERFLY VALVE 150# to 600#



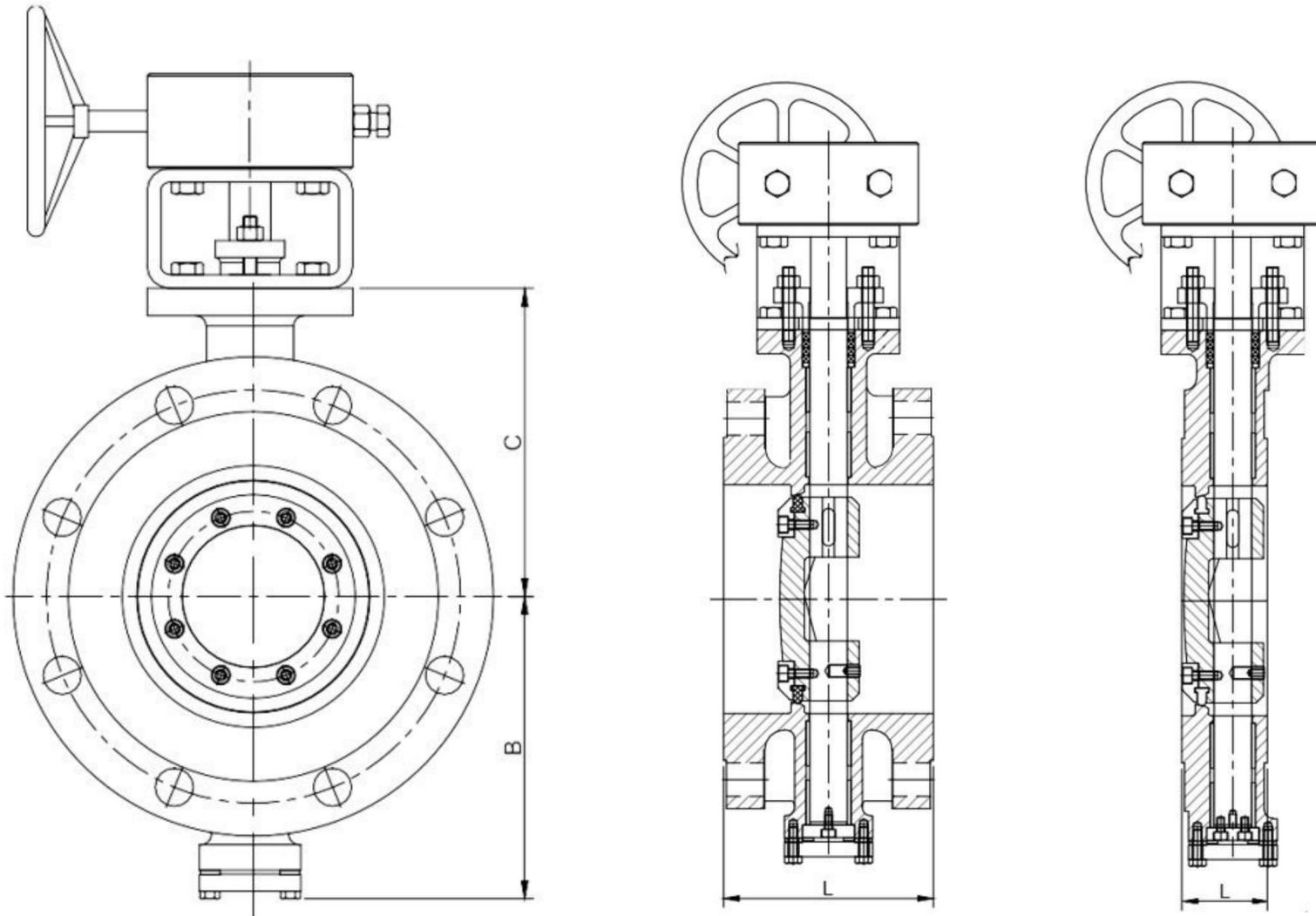
SL. NO.	DESCRIPTION	TYPICAL MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Body Seat	Integral
3	Disc	ASTM A 351 Gr. CF8
4	Seal ring	EPDM
5	Retainer ring	ASTM A 240 T304
6	End Cover	ASTM A 105
7	End Cover Gasket	PTFE / Grafoil
8	Allen Bolt – Thrust Pad	ASTM A 193 Gr. B8
9	Thrust Washer	ASTM A 276 T304
10	Thrust Pad	17 - 4PH
11	Hex Bolt – End Cover	ASTM A 193 Gr. B7
12	Bearing Bush	SS + PTFE

SL. NO.	DESCRIPTION	TYPICAL MATERIAL
13	Packing Washer	ASTM A 276 T410
14	Gland Packing	Grafoil
15	Gland Bush	ASTM A 276 T410
16	Gland Stud & Nut	ASTM A 193 Gr. B8 / 8
17	Hex Bolt – Body to Bracket	ASTM A 193 Gr. B7
18	Hex Bolt – Operator	ASTM A 193 Gr. B7
19	Pin – Disc Locking	17- 4 PH
20	Key – Disc to Shaft	EN - 8
21	Allen Bolt – Retainer Ring	SS 316
22	Shaft	ASTM A 276 T410
23	Bracket	Mild Steel
24	Operator	Gear Type



DOUBLE OFFSET

150# (API 609 / BS 593)

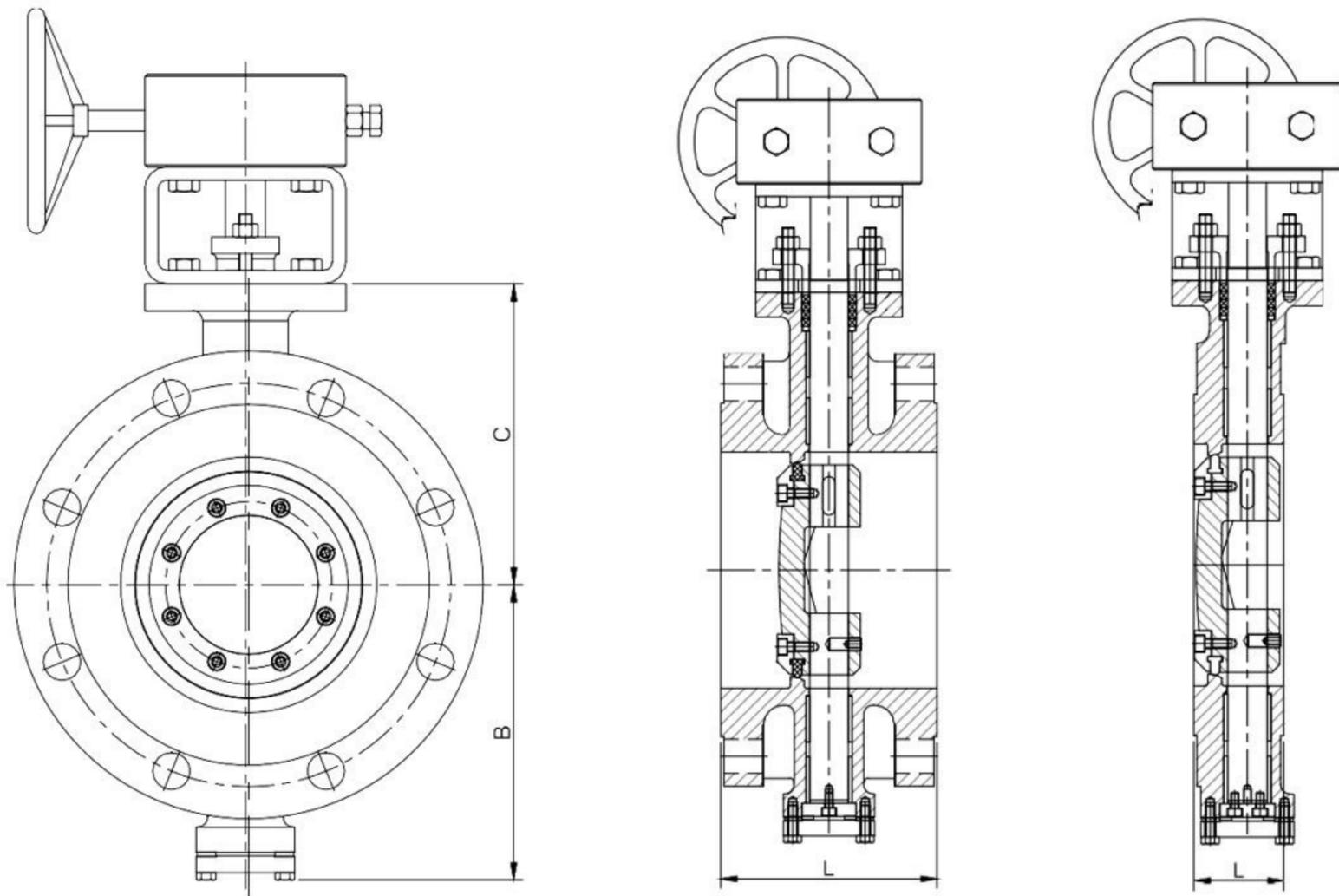


DIMENSION TABLE, CLASS 150

SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	114	48	46	120	135	15	5	9
4	100	127	54	54	140	155	20	6	12
6	150	140	57	57	165	180	30	9	17
8	200	152	64	64	195	210	47	14	24
10	250	165	71	71	235	250	72	30	37
12	300	178	81	81	275	290	105	44	58
14	350	190	92	92	300	315	147	50	80
16	400	216	102	102	340	355	226	72	127
18	450	222	114	114	360	375	287	95	132
20	500	229	127	127	400	420	352	120	217
24	600	267	154	154	455	475	548	210	370

FL : Flanged – Short Pattern , WT : Wafer Type , LT : Lug Type
 As Kent Valve continuously endeavour to improve our products,the data given herein is subject to change.

DOUBLE OFFSET 300# (API 609 / BS 593)



DIMENSION TABLE, CLASS 300

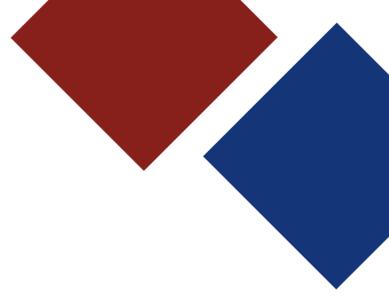
SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	114	48	46	125	145	15	8	11
4	100	127	54	54	145	165	20	10	14
6	150	140	59	59	180	200	30	21	25
8	200	152	73	73	210	230	47	38	45
10	250	165	83	83	240	270	68	54	68
12	300	178	92	92	280	310	110	83	110
14	350	190	117	117	310	340	191	133	191
16	400	216	133	133	345	385	268	201	270
18	450	222	149	149	375	415	363	267	363
20	500	229	159	159	395	445	449	332	449
24	600	267	181	181	475	525	740	539	740

- ★ 26" & above size design as per client requirement.
- ★ Class 600 size design on request.

FL : Flanged – Short Pattern , WT : Wafer Type , LT : Lug Type
As Kent Valve continuously endeavour to improve our products,the data given herein is subject to change.



TRIPLE OFFSET BUTTERFLY VALVE (TOB)



Kent Globe Valves with its unique features have been used in oil & gas, power, petrochemical and fertilizers.

The body geometry is designed to mitigate the result of stress calculations to achieve the most regular distribution of the internal forces due to pressure action. The cover is bolted type or pressure seal type for the higher pressures. The cover and disk is produced with forged material similar to the body material. A welding overlay of stainless steel material with high hardness is deposited on the contact surface whenever required.

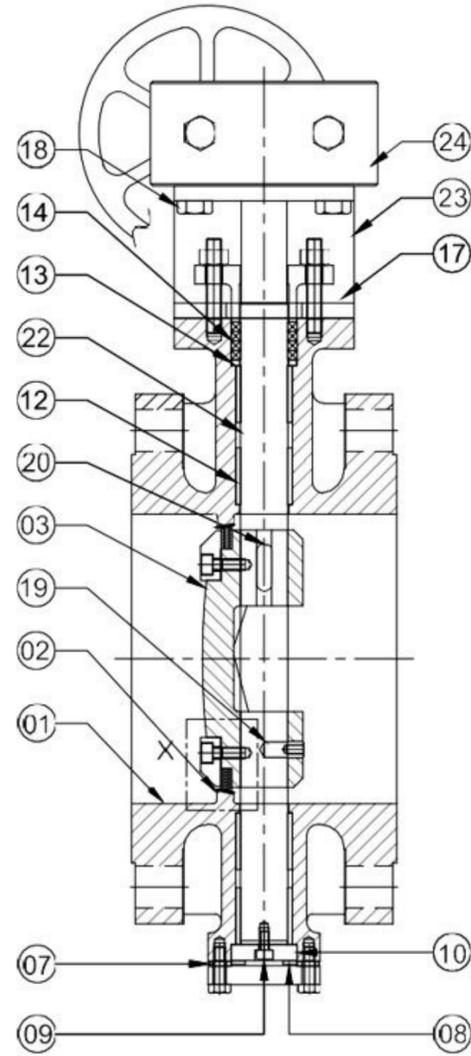
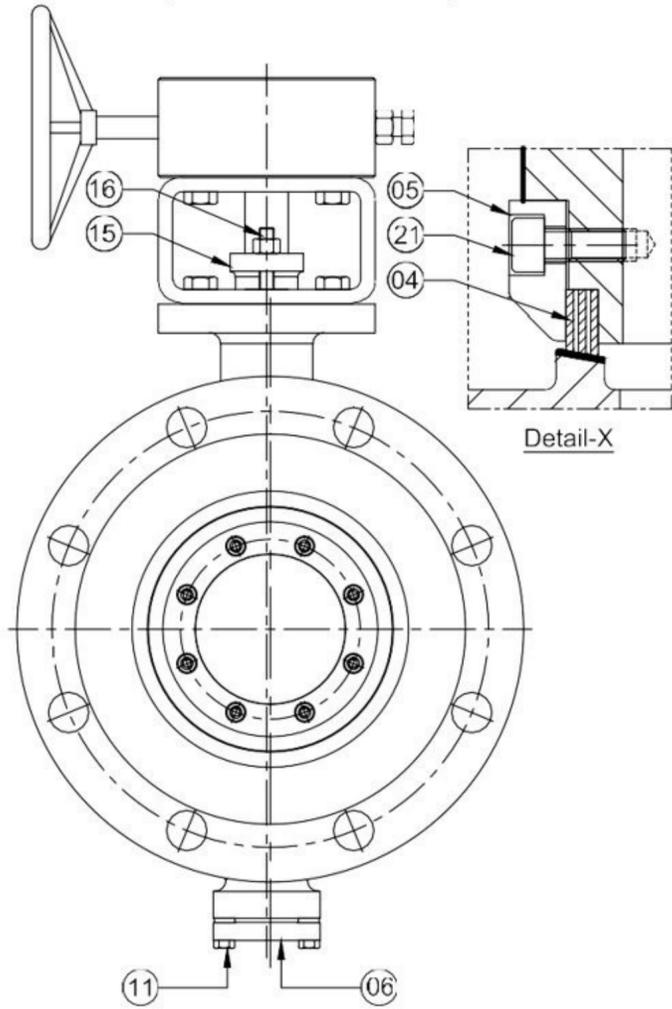
Due to special cone type seat, design valves operate smoothly and seals the leakage effectively. The seals can be provided in various combination as per client requirement to suits high temperature application.





CONSTRUCTION OF TRIPLE OFFSET BUTTERFLY VALVE

150# to 1500#



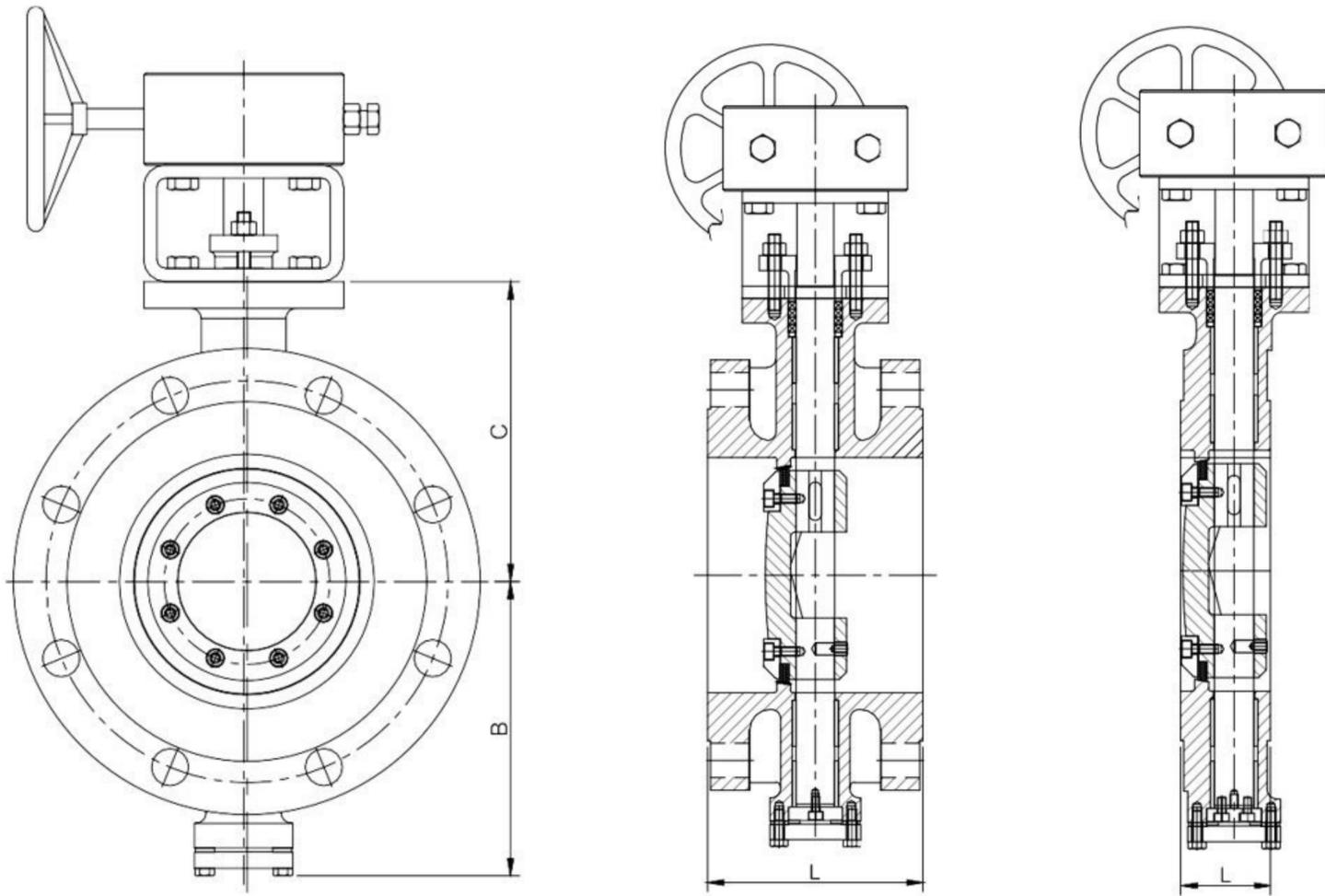
SL. NO.	DESCRIPTION	TYPICAL MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Body Seat	Integral + 13% Cr.
3	Disc	ASTM A 351 Gr. CF8
4	Seal ring	Grafoil
5	Retainer ring	ASTM A 240 T304
6	End Cover	ASTM A 105
7	End Cover Gasket	PTFE / Grafoil
8	Allen Bolt – Thrust Pad	ASTM A 193 Gr. B8
9	Thrust Washer	ASTM A 276 T304
10	Thrust Pad	17 – 4PH
11	Hex Bolt – End Cover	ASTM A 193 Gr. B7
12	Bearing Bush	SS + PTFE

SL. NO.	DESCRIPTION	TYPICAL MATERIAL
13	Packing Washer	ASTM A 276 T410
14	Gland Packing	Grafoil
15	Gland Bush	ASTM A 276 T410
16	Gland Stud & Nut	ASTM A 193 Gr. B8 / 8
17	Hex Bolt – Body to Bracket	ASTM A 193 Gr. B7
18	Hex Bolt – Operator	ASTM A 193 Gr. B7
19	Pin – Disc Locking	17- 4 PH
20	Key – Disc to Shaft	EN – 8
21	Allen Bolt – Retainer Ring	SS 316
22	Shaft	ASTM A 276 T410
23	Bracket	Mild Steel
24	Operator	Gear Type



TRIPLE OFFSET

150# (API 609 / BS 593)



DIMENSION TABLE, CLASS 150

SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	114	48	48	120	135	15	8	8
4	100	127	54	54	140	155	20	10	12
6	150	140	57	57	165	180	30	16	19
8	200	152	64	64	195	210	47	26	29
10	250	165	71	71	235	250	72	43	50
12	300	178	81	81	275	290	105	60	71
14	350	190	92	92	300	315	147	91	103
16	400	216	102	102	340	355	226	137	163
18	450	222	114	114	360	375	287	204	222
20	500	229	127	127	400	420	352	250	294
24	600	267	154	154	455	475	548	402	458

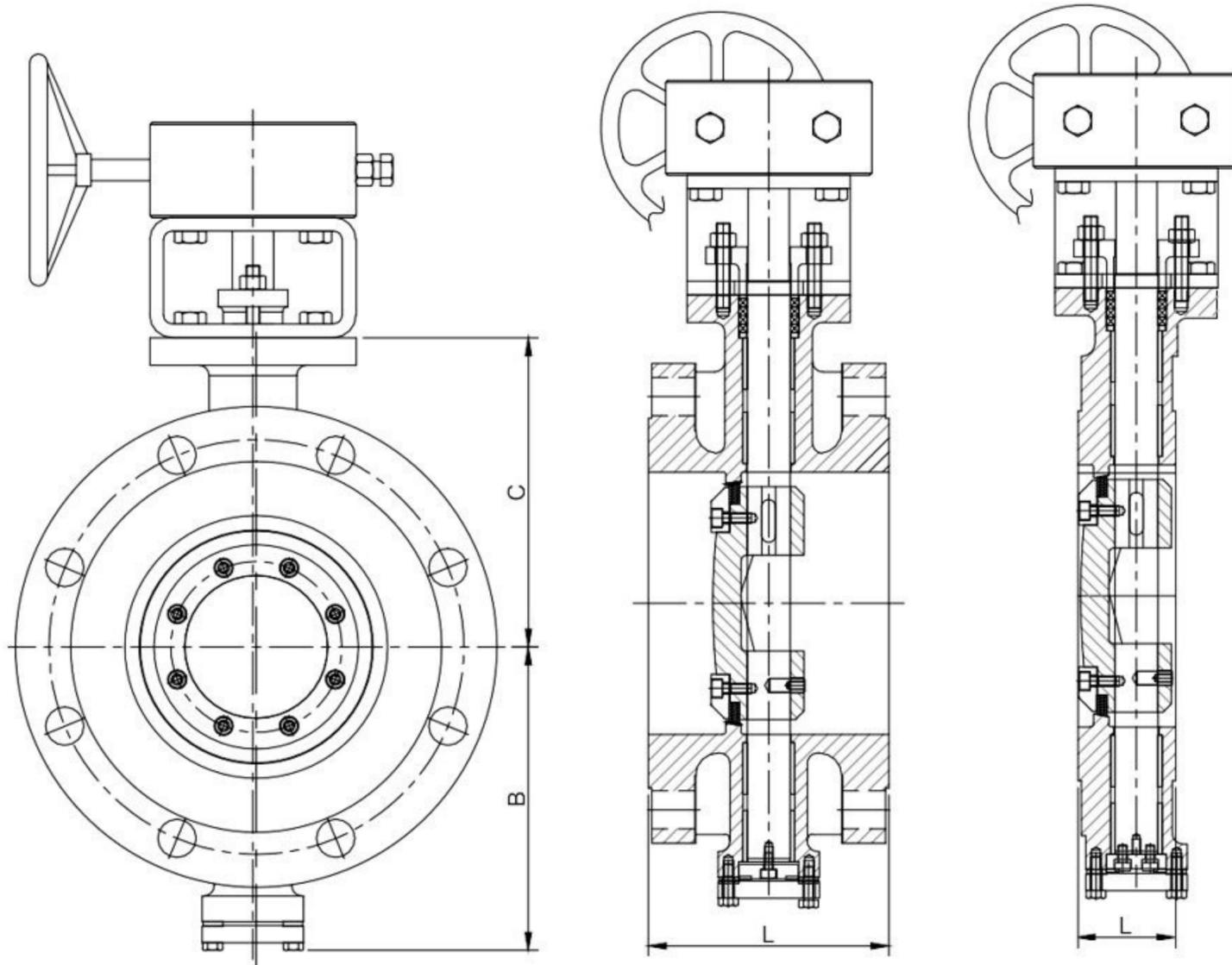
★ 26" & above size design as per client requirement.

FL : Flanged – Short Pattern , WT : Wafer Type , LT : Lug Type
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRIPLE OFFSET

300# (API 609 / BS 593)



DIMENSION TABLE, CLASS 300

SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	114	48	48	125	145	15	8	11
4	100	127	54	54	145	165	20	10	14
6	150	140	59	59	180	200	30	21	25
8	200	152	73	73	210	230	47	38	45
10	250	165	83	83	240	270	68	54	68
12	300	178	92	92	280	310	110	83	110
14	350	190	117	117	310	340	191	133	191
16	400	216	133	133	345	385	268	201	270
18	450	222	149	149	375	415	363	267	363
20	500	229	159	159	395	445	449	332	449
24	600	267	181	181	475	525	740	539	740

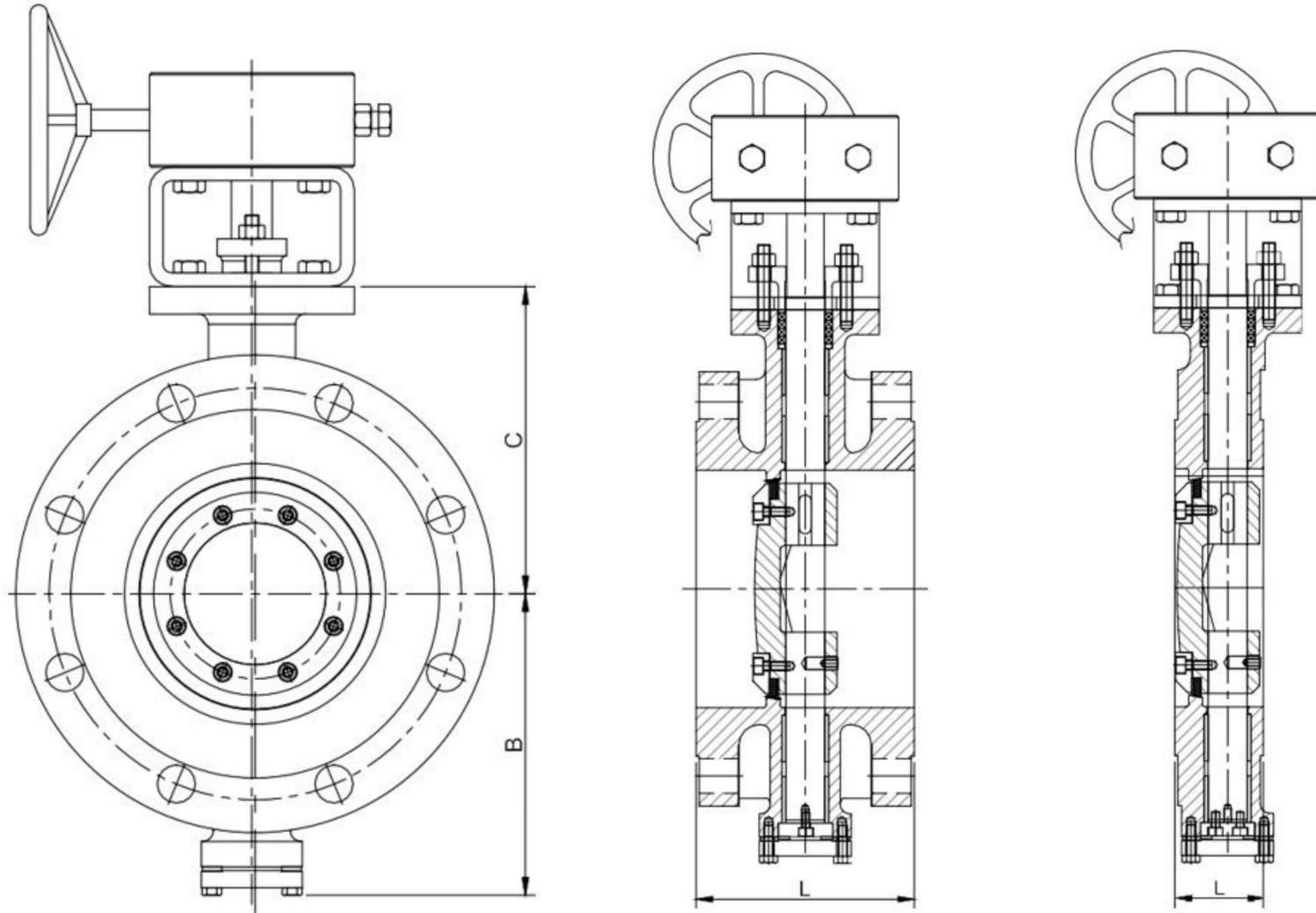
- ★ 26" & above size design as per client requirement.
- ★ Class 600 size design on request.

FL : Flanged – Short Pattern , WT : Wafer Type , LT : Lug Type
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRIPLE OFFSET

600# (API 609 / BS 593)



DIMENSION TABLE, CLASS 600

SIZE		(L)- FACE TO FACE			B	C	APPROX. WT. (kg)		
NPS	DN	FL	WT	LT			FL	WT	LT
3	80	180	54	54	125	145	-	11	11
4	100	190	64	64	155	175	59	19	26
6	150	210	78	78	195	215	109	36	54
8	200	230	102	102	230	250	164	70	103
10	250	250	117	114	275	305	289	127	181
12	300	270	140	140	300	330	355	175	249
14	350	290	155	155	320	350	448	249	340
16	400	310	178	178	360	400	597	341	499
18	450	330	200	200	390	430	789	494	667
20	500	350	216	216	425	475	1075	617	839
24	600	390	232	232	490	540	1474	980	1315

- ★ 26" & above size design as per client requirement.
- ★ Class 900 & 1500 size design on request.

FL : Flanged – Short Pattern , WT : Wafer Type , LT : Lug Type
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

ORDERING INFORMATION



A	B	C	D	E	F	G
COB	02	001	FR	16	22	GO

A	
VALVE TYPE MODEL CODE	
CONCENTRIC BUTTERFLY VALVE	COB
DOUBLE OFFSET BUTTERFLY VALVE	DOB
TRIPLE OFFSET BUTTERFLY VALVE	TOB

B	
SIZE	
2"	02
2 1/2"	2H
3"	03
4"	04
5"	05
6"	06
8"	08
10"	10
12"	12
14"	14
16"	16
18"	18
20"	20
24"	24
26"	26
28"	28
30"	30
32"	32
34"	34
36"	36
38"	38
40"	40
42"	42
44"	44
48"	48

C	
PRESSURE CLASS	
150	001
300	003
600	006
900	009
1500	015

D	
END CONNECTION CODE	
FLANGE RF	FR
WAFFER TYPE	WT
LUG TYPE	LT

E	
BODY MATERIAL ASTM	
A 216 Gr. WCB	16
A 216 Gr. WCC	17
A 352 Gr. LCC	18
A 352 Gr. LCB	19
A 217 GR. WC6	20
A 217 GR. WC9	21
A 217 GR. C5	22
A 351 GR. CF3	23
A 351 GR. CF8	24
A 351 GR. CF3M	25
A 351 GR. CF8M	26
A 351 GR. CF8C	27
A 351 GR. CN7M	28
A 890 GR. 5A	29

END CONNECTION 26" & above	
AWWA	AW
ASME B 16.47 - A	4A
ASME B 16.47 - B	4B

F			
TRIM MATERIAL			
SR NO.	SEAT	BALL *	STEM /BUSH
20	PTFE	13% Cr	13% Cr
21		SS 304	SS 316
22		SS 316	SS 316
23	GFT 25% GLASS FILLED & CFT	13% Cr	13% Cr
24		SS 304	SS 316
25		SS 316	SS 316
26	DEVLON / DELTRIN	13% Cr	13% Cr
27		SS 304	SS 316
28		SS 316	SS 316
29	PEEK	13% Cr	13% Cr
30		SS 304	SS 316
31		SS 316	SS 316
32	EPDM	13% Cr	13% Cr
33		SS 304	SS 316
34		SS 316	SS 316
35	NITRILE	13% Cr	13% Cr
36		SS 304	SS 316
37		SS 316	SS 316

G	
OPERATOR	
GEAR OPERATED	GO
LEVER OPERATED	LO
PNEUMATIC ACTUATOR	PA
HYDRAULIC ACTUATOR	HA
ELECTRIC ACTUATOR	EA
BARE STEM	BS

SPECIAL REQUIREMENT	
LOCKING ARRANGEMENT	LA
EXTENDED BONNET	EB
CRYOGENIC VALVE	CR
EXTENDED STEM	ES
IBR CERTIFICATE	IB
BYPASS SERVICE	BS
FULL STEM JACKET	FJ
PARTIAL STEM JACKET	PJ

Note :- Other Combination if required, please ask.

OFFICE AND FACTORY



KENT VALVE
CRITICAL PRESSURE & FLOW CONTROL



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