Your **Best** Valve Partner

BRITVAL LTD

Since its launch, Britval valves has catered to various industries, manufacturing valves for general application to critical application areas. Owing to an endless backing from our contractors , our products have secured the confidence of the leading EPC contractors and project suppliers, thus gaining a highly promising reputation globally.

Our specialised engineering team are always eager to learn the requirements of projects and support them with apt solutions meeting all the stringent requirements.

As a manufacturer of valves, we have the technology and machine tools to enable us to develop products that can be used in different industrial plants such as: chemical, petrochemical, petroleum-refineries, offshore-platforms, power plants, remote heating, steelworks, cryogenic plants, sugar factories and paper mills.

We are proud to introduce Britval valves for your challenging flow control requirements.

MISSION, VISION & VALUES

OUR MISSION

Our Mission is to achieve uncompromising excellence in the products that we manufacture and the level of responsiveness we maintain, to meet the needs and expectations of our customers, vendors and employees.

OUR VALUES

Work with integrity, transparency and fairness

OUR VISION

To grow profitably across the globe by excelling in operations through continuous innovations and improvements & to become the premier source of industrial valves world wide.

QUALITY **MANAGEMENT**

BRITVAL valves has established a quality system in accordance with the ISO 9001:2015 standard. We have chosen and appointed the best accrediting body, because of their expertise and set standards of auditing and process checking.The main value of our quality management system is that it helps us to improve our performance, reduce cost and give direct benefit to our customers accordingly.

Quality
is not an act
It is a
Habit

VARIOUS INDUSTRIES

BRITVAL Valves is a pioneer in flow control solutions for various industries. BRITVAL valves have been installed across the globe in onshore and offshore facilities, pipelines, LNG and GTL projects, Refineries, Petrochemical complexes, pipelines, tankages and terminals, power industry and water and waste water industry. BRITVAL Valves offers a range of products that go beyond industry and standard requirements. Valves are offered for severe services in harsh environments , Erosion and corrosion resistant valves in high alloys and with specialized coatings.

Oil & Gas

Refining, Petrochemicals & Chemicals

Power & Energy

Water & Waste Water

Other Industries

OUR PRODUCTS

BALL VALVES

Product Portfolio

Valve	Type	End Connection	¼	⅜	½	¾	1	1¼	1½	2	2½	3	4	6	8
			8	10	15	20	25	32	40	50	65	80	100	150	200
Single-piece, Regular Bore	Fire-safe	Flanged Cl 150/ 300			•	•	•		•	•	•	•	•	•	
Two-piece, Full Bore	Fire-safe	Flanged Cl 150/ 300			•	•	•		•	•	•	•	•	•	•
Three-piece, Full Bore	Standard	Screwed/ Socket-weld*	•	•	•	•	•	•	•	•	•	•	•		
		Flanged Cl 150/ 300/ 600			•	•	•		•	•					
		Flanged Cl 2500			•	•	•		•						
	Fire-safe	Screwed/ Socket-weld*	•	•	•	•	•	•	•	•	•				
	IBR	Screwed/ Socket-weld	•	•	•	•	•	•	•	•					
Three-piece, Regular Bore	Standard	Screwed/ Socket-weld**	•	•	•	•	•	•	•	•		•	•		
		Flanged Cl 150/ 300/ 600				•	•		•	•					
		Flanged Cl 1500			•	•	•		•	•					
	Fire-safe	Screwed/ Socket-weld*				•	•	•	•	•					
	IBR	Screwed/ Socket-weld				•	•	•	•	•					

*Screwed/ socket-weld valves in sizes DN 8 to DN 50 are offered in Class 800, and sizes DN 65 and above, in Class 300.
**Sizes DN 15 to DN 50 are offered in Class 1500 also.

BRITVAL Ball Valves are available in single-piece, two-piece and three-piece constructions. In these valves, line pressure forces the floating ball against the downstream seat to effect bubble-tight sealing.

Blowout Proof Stem
The side-entry stem of BRITVAL Ball Valves has a shoulder that bears against a matching shoulder in the body to make it blowout proof - the higher the line pressure, the better the sealing to atmosphere.

High Integrity Stem Sealing
Sealing to atmosphere is further enhanced by stem thrust seals and stem packing rings. To compensate for wear and thermal expansions, Belleville springs are used.

Mirror-finished Solid Stainless Steel Balls
To obtain bubble-tight sealing and lower operating torques, mirror-finished SS balls are used as a standard. The solid construction of the balls guarantees higher structural strength.

Seats with Pressure-relieving Slots
Seats with fine grain structure are used to ensure better strength and longer life. Pressure-relieving slots are a unique feature of BRITVAL Ball Valves. The slots relieve upstream pressure when the valve is in closed position and prevent seat damage.

Actuator Mounting Flange
BRITVAL single-piece and two-piece Ball Valves are provided with an integral actuator mounting flange conforming to ISO 5211.

Material of Construction

No.	Part	Material specification		
		Single-piece	Two-piece	Three-piece
1	Body/ Connector/ Insert	ASTM A216 Gr. WCB		ASTM A216 Gr. WCB ASTM A105
		ASTM A351 Gr. CF8M/ ASTM A182 Gr. F316		
2	Ball	ASTM A351 Gr. CF8M/ ASTM A182 Gr. F316/ ASTM A182 Gr. F304		
3	Seat	PTFE/ RPTFE/ Special filled PTFE/ PEEK/ Devlon®/ NXT-70/ SS316 + ST		
4	Stem	ASTM A479 Type 316		
5	Body Seal	Graphite		PTFE/ RPTFE/ Special filled PTFE/ Graphite
6	Stem Thrust Seal	Carbon-filled PTFE		
7	Stem Packing	Carbon-filled PTFE/ Graphite		

OUR PRODUCTS

BRITVAL LTD

TRUUNION BALL VALVES

Range

Valve Type	ASME Class	2	3	4	6	8	10	12	14	16	18	20	22	24	28	30	36	42	48	56
		50	80	100	150	200	250	300	350	400	450	500	550	600	700	750	900	1050	1200	1400
2-piece	150	•	•	•	•	•	•	•	•	•	•	•	•	•						
	300	•	•	•	•	•	•	•	•	•	•	•	•	•						
	600	•	•	•	•	•	•	•	•	•	•	•	•	•						
	900	•	•	•	•															
	1500	•	•	•	•															
	2500	•	•	•	•															
3-piece	150						•	•	•	•	•	•	•	•	•	•	•	•	•	•
	300						•	•	•	•	•	•	•	•	•	•	•	•	•	•
	600						•	•	•	•	•	•	•	•	•	•	•	•	•	•
	900					•	•	•	•	•	•	•	•	•	•	•	•			
	1500					•	•	•	•	•	•	•	•	•						
	2500					•	•	•	•	•	•	•	•	•						

Materials of Construction

No.	Components	Materials	
		WCB/ WCC	LCB/ LCC
1	Body	A105N/ A216 Gr. WCB/ WCC	A350 Gr. LF2/ A352 Gr. LCB/ LCC
2	Connector	A105N/ A216 Gr. WCB/ WCC	A350 Gr. LF2/ A352 Gr. LCB/ LCC
3	Ball	A182 Gr. F6a/ A105N + ENP Coated/ A182 Gr. F316/ F316L	A182 Gr. F316/ F316L/ A351 Gr. CF8M/ CF3M
4	Seat	PTFE/ RPTFE/ Nylon impregnated with MoS_2/ PEEK/ Devlon®/ PCTFE	
5	Seat Ring	A182 Gr. F6a/ A182 Gr. F316/ F316L	A182 Gr. F316/ F316L
6	Coil Spring	Inconel X750	
7	Bearing	SS-backed PTFE	
8	Seals	FKM (Viton®)/ HNBR/ Nitrile Rubber/ FFKM (Kalrez®) / Lipseals/ Graphite	
9	Stem	A479 Type 410/ A479 Type 316/ 316L	A479 Type 316/ 316L
10	Packing	Graphite	
11	Body Seal	Graphite/ Spirally-wound SS304/ 316 with Graphite Filler	
12	Stud	A193 Gr. B7/ B7M	A320 Gr. L7/ L7M
13	Hexagonal Nut	A194 Gr. 2H/ 2HM/ 7	A194 Gr. 7/ 7M
14	Gear Unit	Worm Gear	

Double Block and Bleed

BRITVAL Valves offers Trunnion-mounted Ball Valves (TMBV) that conform to API 6D. The valve, in closed position, blocks flow from both valve ends when the cavity between the seating surfaces is vented through a bleed connection provided on the body cavity.

Inbuilt Double Block & Bleed feature enables on-line affirmation of seat sealing.The seat rings float in the flow-axis against a fixed ball and line pressure forces the spring-loaded seats against the ball to effect sealing.

Fire Safe

BRITVAL Trunnion-mounted Ball Valves are fire-safe by design and meet the requirements of API 6FA, API 607 and ISO 10497.

Blowout-proof Stem

The stem of BRITVAL Trunnion-mounted Ball Valves has an integral shoulder that butts against a matching profile in the body to make it blowout-proof. This feature also enables online replacement of packing rings during an emergency.

Anti-static

Build-up of static electricity due to friction between ball and soft seat material is a fire hazard. A spring-loaded plunger is provided on the stem to ensure electrical continuity and to dissipate any static electricity generated.

Cavity Relief

To prevent damage to valve seats and ball due to over-pressurisation inside cavity, all BRITVAL Trunnion-mounted Ball Valves are provided with automatic cavity pressure relief mechanism. When pressure of entrapped fluid exceeds 1.33 times the rated pressure, the spring-loaded seat gets pushed away from the ball to relieve pressure.

Internal Trunnion Holder

BRITVAL Trunnion-mounted Ball Valves are equipped with internal trunnion holders (bearing blocks). This design eliminates a leakage path as well as prevents accidental damage during handling.

OUR PRODUCTS

BRITVAL LTD

GATE GLOBE CHECK

DESIGN STANDARD & WALL THICKNESS		Valve type	End Conn.	ASME Class	2	3	4	6	8	10	12	14	16	18	20	24	28	30	34	36	42	48	54	56	60	64
	API 600 & BS 1414	Gate Valves Bolted Bonnet	Flanged Buttweld ends	150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
				900		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				1500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				2500	●	●	●	●	●	●	●	●	●	●	●	●										
	BS 1873	Globe Valves Bolted Bonnet	Flanged Buttweld ends	150	●	●	●	●	●	●	●	●	●	●	●	●										
				300	●	●	●	●	●	●	●	●	●	●	●	●										
				600	●	●	●	●	●	●	●	●	●	●	●	●										
				900		●	●	●	●	●	●															
				1500	●	●	●	●	●	●	●															
	BS 1868	Check Valves Bolted Cover	Flanged Buttweld ends	150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
				300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
				600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				900		●	●	●	●	●	●	●	●	●	●	●										
				1500	●	●	●	●	●	●	●	●	●	●	●	●										
	ASME B16.34	Gate Valves Pr. Seal Bonnet	Flanged Buttweld ends	600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				900	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				1500	●	●	●	●	●	●	●	●	●	●	●	●										
				2500	●	●	●	●	●	●	●	●	●	●	●	●										
		Globe Valves Pr. Seal Bonnet	Flanged Buttweld ends	600	●	●	●	●	●	●	●	●	●	●	●	●										
				900	●	●	●	●	●	●	●	●	●	●	●	●										
				1500	●	●	●	●	●	●	●	●	●	●	●											
				2500	●	●	●	●	●	●	●	●	●													
		Check Valves Pr. Seal Bonnet	Flanged Buttweld ends	600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				900	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				1500	●	●	●	●	●	●	●	●	●	●	●	●										
				2500	●	●	●	●	●	●	●	●	●	●	●	●										
OTHER VALVES	CRYOGENIC	Cryogenic Gate Valves		150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
				300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
				600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
				900	●	●	●	●	●	●	●	●	●	●	●	●										
				1500	●	●	●	●	●	●	●															
				2500	●																					
		Cryogenic Globe Valves		150	●	●	●	●	●	●	●	●	●	●	●											
				300	●	●	●	●	●	●	●	●	●	●	●											
				600	●	●	●	●	●	●	●	●	●													
				900	●	●	●																			
				1500	●	●	●																			
				2500	●																					
	SPECIALS	Angle Globe Valves		150	●	●	●	●	●	●	●															
				300	●	●	●	●	●	●	●															
		Soft-seated Gate Valves		150	●	●	●	●	●	●	●															
				300	●	●	●	●	●	●	●															
		API 6D Gate Valves		150	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
				300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
				600	●	●	●	●	●	●	●	●	●	●	●	●										
				900	●	●	●	●	●	●	●	●	●	●	●	●										
				1500	●	●	●	●	●	●	●	●	●													

Common Test / Inspection methods

Test / Inspection	*Method*	*Acceptance Criteria*
Visual Inspection		MSS SP55
Chemical Analysis	ASTM E350	Relevant ASTM
Mechanical Properties	ASTM A370	Relevant ASTM
Radiographic Inspection	ASME B16.34	ASME B16.34
Magnetic Particle Inspection	ASTM E709	ASME B16.34
Liquid Penetrant Inspection	ASTM E165	ASME B16.34
Ultrasonic Inspection	ASTM A388	ASME B16.34
Positive Material Identification (PMI)	Vacuum emission spectrometer	Customer specification
Pressure Testing*	API 600/API 598/ BS 6755 Part I	API 600/API 598/ BS 6755 Part I
Dimensional Inspection		Valve Standard

* Performed on all valves.
The pressure containing parts of all valves are marked with the foundry identification and heat numbers.

Body / Bonnet Materials

Material Classification	*ASTM Specification*
Carbon Steel	ASTM A216 Gr. WCB
1¼ Cr - ½ Mo	ASTM A217 Gr. WC6
2¼ Cr - 1 Mo	ASTM A217 Gr. WC9
5 Cr - ½ Mo	ASTM A217 Gr. C5
9 Cr - 1 Mo	ASTM A217 Gr. C12
9 Cr - 1 Mo - ¼ V	ASTM A217 Gr. C12A
Low-temperature Steel	ASTM A352 Gr. LCB/LCC
Austenitic Stainless Steel 18-8 (Type 304)	ASTM A351 Gr. CF8
Austenitic Stainless Steel 16Cr - 12Ni - 2 Mo (Type 316)	ASTM A351 Gr. CF8M

Other materials such as ASTM A351 Gr. CF3, ASTM A351 Gr. CF3M and Duplex SS are also offered.

OUR PRODUCTS

BRITVAL LTD

FORGED GATE GLOBE CHECK

DESIGN STANDARD	Valve Type	End Conn.	ASME Class		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
API 602 / BS 5352	Gate Valves	screwed/ sock.wld	800	RB	●	●	●	●	●	●	●	●
				FB		●	●	●	●	●	●	
		sock.wld	1500	SP		●	●	●	●	●	●	●
		flanged	150	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			300	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			600	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
BS 5352	Globe & Check Valves	screwed/ sock.wld	800	RB	●	●	●	●	●	●	●	●
				FB		●	●	●	●	●	●	
		flanged	150	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			300	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			600	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
API 602	Bellows-Sealed Gate Valves	screwed/ sock.wld	800	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
BS 5352	Bellows-Sealed Globe Valves		800	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
BS 6364	Cryogenic Gate & Globe Valves	screwed/ sock.wld	800	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
		flanged	150	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			300	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
			600	RB			●	●	●	●	●	●
				FB			●	●	●	●	●	
ASME B16.34/ MSS SP 84	Y-pattern Globe Valves	screwed/ sock.wld/ butt.wld	1500	FB			●	●	●	●	●	●
			2500	FB			●	●	●	●	●	●
	Y-pattern Check Valves		1500	FB			●	●	●	●	●	●
			2500	FB			●	●	●	●	●	●

RB - Reduced Bore - bore conforms to BS 5352 Reduced Bore and API 602 Standard Port

FB - Full Bore - bore conforms to BS 5352 Standard Bore

SP - Standard Port - bore conforms to API 602 Standard Port

Body and Trim Combinations

Body & Bonnet/Cover	Trim numbers
ASTM A105	01 / 08 / 05
ASTM A182 Gr. F5	08 / 05
ASTM A182 Gr. F9	08 / 05
ASTM A182 Gr. F11	08 / 05
ASTM A182 Gr. F22	08 / 05
ASTM A182 Gr. F304	02 / 15
ASTM A182 Gr. F316	10 / 12 / 16
ASTM A350 Gr. LF2	08 / 16

Other materials of construction such as F316L/ F304L also available.

OUR
PRODUCTS

BRITVAL

KNIFE GATE VALVES

Sizes 2" to 54", Class 150 and PN 10

BRITVAL Valves offers Knife Gate Valves with metallic and resilient seats for bidirectional and unidirectional applications. The versatile range is available in wafer, lugged and flanged configurations.

The Knife Gate Valve provides reliable shut-off for both dry and wet line fluids. The bonnet-less valve is equipped with a heavy-duty gate to cut though sediments – and is ideally suited for abrasive slurries, pulp stock, semi-solids, dry ash, chips, etc. The valves find application in paper and pulp, minerals and metals, steel plants, thermal power plants and chemical/ petrochemical industries.

Compliance Standards

- Valve Design: MSS SP 81
- Wall Thickness: ANSI B16.34
- Face-to-Face: MSS SP 81
- Flange Dimensions: ANSI B16.5
- Testing Standard: MSS SP 151

Salient Features

- Sharp heavy-duty knife edge at the bottom of gate cuts through solid sediments and ensures reliable shut-off
- Gate offered with surface coatings based on customer demand - Hardfacing, Nitriding, Chrome-plating
- Replaceable seats - Easy maintenance at site. Longer service life
- Low operating torque - Facilitates use of a smallersize actuators. Lower Initial Investment.

Range

Type	Pressure Rating*	Size**	Seats	End connections
Uni-Directional	PN10	2"-54"	Metal, Soft	Lugged/ Wafer/ Flanged
	#150			
Bi-Directional	PN10	2"-54"	Soft	Lugged
	#150			

* Also offered: Valves in 75 psi to 150 psi
** Higher sizes on demand

Accessories

- Deflection Cone
- V-Orifice
- Stem Extension
- Stem Protection
- Retainer Ring
- Protection Guard

Actuators

- Pneumatic: Double/ Single Acting
- Electro-Pneumatic
- Hydraulic
- Electrical

OUR PRODUCTS

BRITVAL LTD

TRIPLE-OFFSET BUTTERFLY VALVES

Triple-offset Butterfly Valves
BRITVAL Valves offers a comprehensive range of Triple-offset Butterfly Valves in a variety of body styles and materials to address critical process requirements in diverse industries such as hydrocarbon, power, chemicals & fertiliser, water, etc.

The product range covers valves in ASME classes up to 1500, in sizes up to 100" (2500 mm), in carbon steel, stainless steel and alloy steels, suitable for temperatures from -196°C to 538°C. Based on customer requirements, valves in higher pressure classes, larger sizes and other materials are also offered.

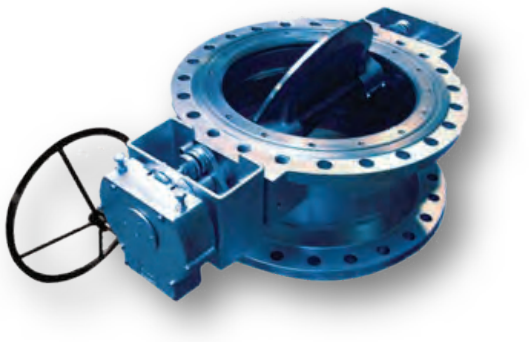
The metal-seated valves conform to API 609 Category B and offer highintegrity bi-directional sealing.

Flanged - Short and Long Patterns

ASME Class	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	38	40	42	48	54	64	72	84	100
	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	850	900	950	1000	1050	1200	1350	1600	1800	2100	2500
150	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									
900	•	•	•	•	•	•	•	•	•	•	•															
1500	•	•	•	•	•	•	•	•																		

Wafer and Wafer-Lugged

ASME Class	3	4	6	8	10	12	14	16	18	20	24
	80	100	150	200	250	300	350	400	450	500	600
150	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•



Materials of Construction

No.	Components	Materials			
		WCB/ WCC	LCB/ LCC	WC6/ WC9	C5
1	Body	A 216 Gr. WCB/ WCC	A 352 Gr. LCB/ LCC	A 217 Gr. WC6/ WC9	A 217 Gr. C5
2	Disc	A 216 Gr. WCB/ WCC	A 352 Gr. LCB/ LCC	A 217 Gr. WC6/ WC9	A 217 Gr. C5
3	Laminar Seal	UNS S31803 + Graphite/ UNS S20910 + Graphite		SS 410 + Graphite/ UNS S20910 + Graphite	
4	Retainer	A 516 Gr. 70	SS 316	SS 410	SS 410/ SS 316
5	Shaft	A 479 Type SS 410/ A 564 Type 630	A 479 Type S20910/ A 564 Type 630	A 479 Type SS 410	A 479 Type SS 410/ A 479 Type S20910
6	Packing	Graphite - 5 Braided rings / Graphite - 3 moulded and 2 braided rings / PTFE			
7	Key	SS 410/ 17-4-PH	UNS S20910 / 17-4-PH	SS 410	SS 410/ UNS S20910
8	Dowel Pin	SS 410/ 17-4-PH	UNS S20910 / 17-4-PH	SS 410	SS 410/ UNS S20910
9	Bearing	SS 316/ UNS S20910 Nitrided			
10	Thrust Plate	SS 316/ UNS S20910 Nitrided			
11	Bottom Cover	A 516 Gr. 70	SS 316 / A 516 Gr. 70	SS 410	SS 410/ SS 316
12	Bearing Protector	Graphite			
13	Gasket - Disc	SS 316 / 316L with Graphite			
14	Gasket - Cover	SS 316 / 316L with Graphite			
15	Gear Unit	Worm type (self-locking)			
16	Bolting	A 193 Gr. B7/ A 194 Gr. 2H	A 320 Gr. L7/ A 194 Gr. 7	A 193 Gr. B16/ A 194 Gr. 7	A 193 Gr. B16/ A 194 Gr. 7
	Body seat hard-faced with Stellite 21 or 6				

OUR PRODUCTS

BRITVAL

CONTROL VALVES

BRITVAL control valve used to control fluid flow by varying the size of the flow passage as directed by a signal from a controller. This enables the direct control of flow rate and the consequential control of process quantities such as pressure, temperature, and liquid level. The opening or closing of automatic control valves is usually done by electrical, hydraulic or pneumatic actuators.

Globe Valve (Size : ½" to 36")

Body Type:	2 Way/ 3 Way/ Angle/ Jacketed	**Guiding:**	2 - top heavy duty stem guides
Body Materials:	All Cast Materials. Forged available up to 4" in any class and higher sizes specifically for #2500 and higher.	**Gland Packing:**	PTFE, Braided PTFE, Grafoil, Fugitive Emission, Vacuum
End Connections:	Flanged (Integral & Separable), Screwed, Butt-weld and Socket-weld	**Gaskets:**	PTFE, Spiral Grafoil, Glass filled SS
Bonnet:	Standard, Extended, Cryogenic & Bellow Sealed	**Actuator:**	Spring Cylinder Linear, Fully Field Reversible

Butterfly Valve (Size : 2" to 72")

Body Type:	One Piece Straight Through/ Jacketed	**Gland Packing:**	PTFE, Braided PTFE, Grafoil, Vacuum
Body Materials:	All Cast Materials	**Gaskets:**	PTFE, Spiral Grafoil, Glass filled SS
End Connections:	Wafer, Semi-Lugged, Full Lugged & Flanged	**Seat Ring:**	Clamped-in self aligned
Bonnet:	Standard, Extended & Cryogenic	**Actuator:**	Spring Cylinder Rotary, Fully Field Reversible

Full Bore Ball Valve (Size : 1" to 24")

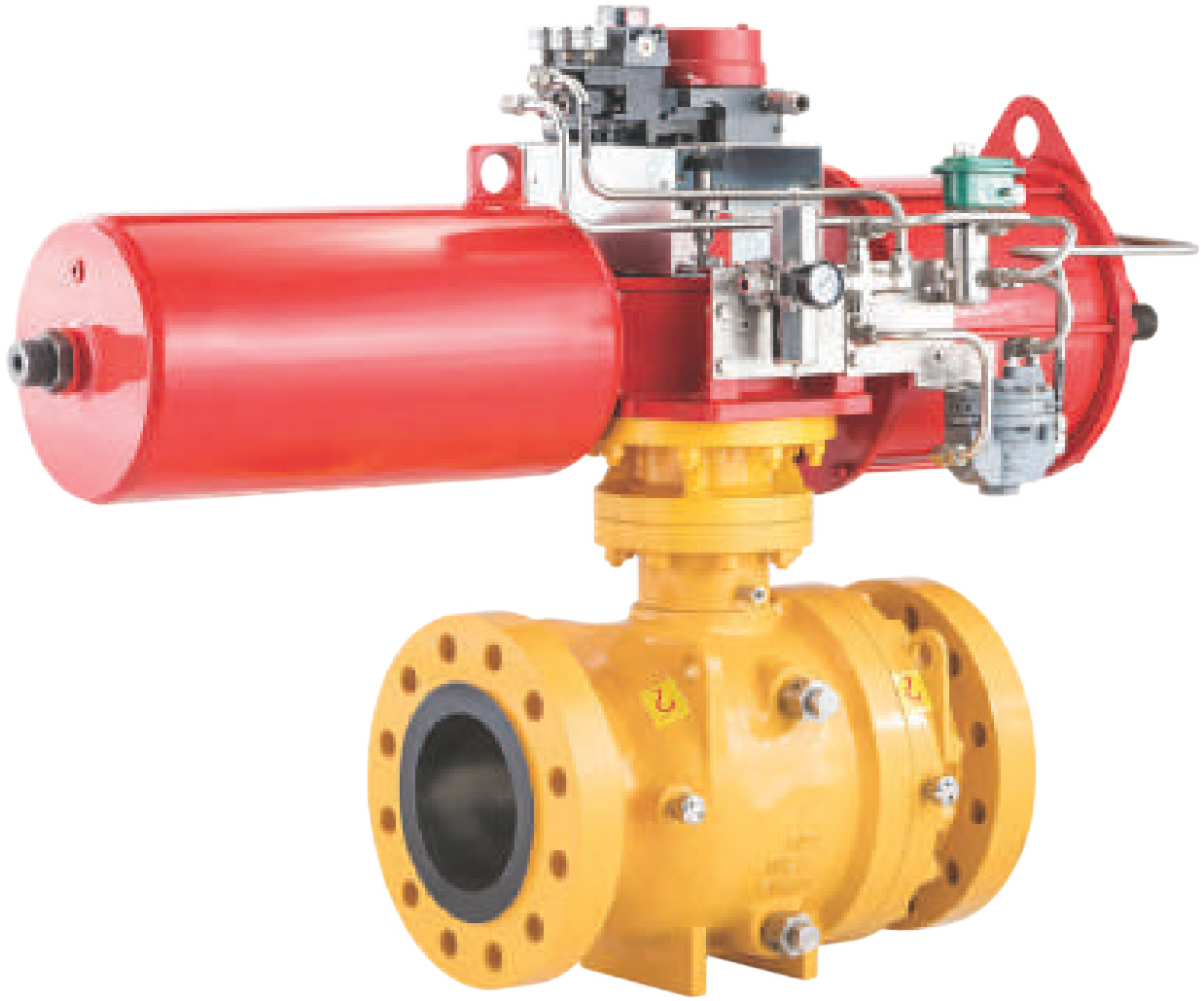
Body Type:	Two Piece/ Three Piece/Floating/ Trunnion-mounted/Jacketed	**Gland Packing:**	PTFE, Braided PTFE, Grafoil, Vacuum
Body Materials:	All Cast Materials	**Gaskets:**	PTFE, Spiral Grafoil, Glass filled SS
End Connections:	Flanged, Socket & Butt Welded	**Characteristics:**	On - Off/ Approximate throttling with Positioner
Bonnet:	Standard, Extended & Cryogenic	**Actuator:**	Pneumatic Spring Rotary, Fully field reversible

Control valves can be classified based on a number of attributes and feature like pressure drop profile , movement profile of the controlling element , functionality , actuator medium . A huge variety of valve types and control operation exist. However, there are two main forms of action; the sliding stem and the rotary action.

OUR PRODUCTS

BRITVAL LTD

VALVE AUTOMATION



Pneumatic Actuators

- SIL3-capable
- Linear / Rotary
- Rack-and-Pinion / Scotch Yoke
- Piston type – Single-acting / Double-acting
- Fast acting with cushioning arrangement
- Certification: IP / ATEX / IEC / PED / CE

Hydraulic / Electro-hydraulic Actuators

- SIL3-capable
- Linear / Rotary
- Scotch Yoke / Rack-and-Pinion (Hydraulic only)
- Piston type – Single-acting / Double-acting
- Electrical failsafe
- With External Hydraulic Power pack
- Certification: IP / ATEX / IEC / PED / CE

Gas-over-Oil Actuators

- Pipeline gas used as power source
- Linear / Rotary
- Scotch Yoke
- Piston type – Double-acting
- Electrical failsafe
- Certification: IP / ATEX / IEC / CE

Electric Actuators

- SIL3-capable
- Linear / Rotary
- Intrusive & Non-intrusive
- On-Off / Inching / Modulating Duty
- Integral or Non-integral Starter
- Electrical fail-safe
- Communication: Hardwire / Modbus / Profibus / FF
- Certification: IP / NEMA / ATEX / IEC / FM / CE / PESO

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