



ISO 9001
ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification



SS-CAST



TECHNICAL BOOK

MANUFACTURER OF INDUSTRIAL VALVES



About us

Incepted in the year 2003, An ISO 9001:2015, Indian Boiler Regulatory Act (IBR), certified organization, we offer a wide assortment of durable and precision engineered castings in standard as well as in different configurations as per the specifications provided by our clients. In addition to this, we also offer our technological expertise and consultancy to our client in order to support their product development programs. To ensure the quality of our castings it is tested on the following parameters such as Chemical Analysis, Tensile Strength and Dimensional Accuracy. We believe in setting high business standards, in depth engineering knowledge and experience, with a solemn commitment to maintain the highest quality standards and just-in-time delivery.

FOUNDRY DIVISION :

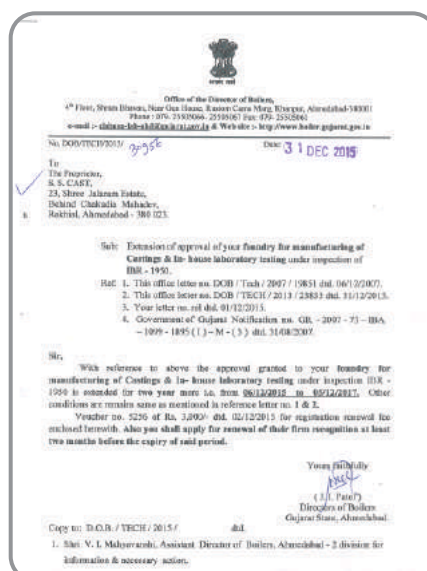
Casting In Ferrous & Non Ferrous Grades : 500 KG Single Piece

Ferrous : Carbon Steel, Alloy Steel, Stainless Steel
WCB/WC6/C5/C12/CF8/CF8M/CN7M/DUPLEX etc.

Non Ferrous : Copper Alloy Like Aluminum Bronze / Copper Nickel / Gun Metal etc
Nickel Alloy like Hast alloy / Monel / Inconel etc

VALVE DIVISION : GATE / GLOBE / SWING CHECK VALVE

Manufacturer of high quality industrial valves, for industries ranging from power, Steel, Oil and natural Gas to Chemicals, Waste, Potable Water among others, for global markets. We provide comprehensive **“Flow Control Solutions”** for any and every need.





CONSTRUCTION FEATURES

- Valves Code API 600 / BS 1414
- End to end Dimension ANSI B 16.10 / 2080
- End Flanged Flat / Raised Face, Drilled to ANSI B 16.5 / BS 1560
- Bonner Bonnet
- Stem Rising
- Wedge Solid / Flexible
- Seat seal Welded / Renewable - Screwed
- Stem Packing Renewable with Valve open on stream
- Testing Code MSS SP 61 / API 598 / BS 6755
- Handwheel non rising
- Others Outside screw and yoke
- Gear Operation (for DIA>14")



SIZE

- ANSI 150 # 50 mm To 500 mm
- ANSI 300 # 50 mm To 400 mm
- ANSI 600 # 50 mm To 300 mm





TEST PRESSURE

MATERIAL	CLASS	SHELL		SEAT		AIR SEAT TEST	
		PSIG	KSCG	PSIG	KSCG	PSIG	KSCG
A216 GR. WCB / A 217 C5 / C12 A351 CF8 / CF8C / A 351 CF 8 M	150	450	31.64	325	22.88	80-100	6-7
	300	1125	79.09	825	57.80	80-100	6-7
	600	2250	158.18	1650	116.00	80-100	6-7



MATERIAL OF SPECIFICATION

Sr. No	COMPONENT	CAST CARBON STEEL	CAST ALLOYS STEEL	CAST STAINLESS STEEL	
				SS 304	SS 316
1	Body	ASTM A216 GR. WCB	ASTM A217 C5 / C12	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
2	Seat ring	13 % CR Steel		AISI 304 / ASTM A 351 GR CF8	AISI 316 / ASTM A 351 GR CF8M
3	Wedge	13 % CR Steel / 13 % CR Steel hard Facing on Body Materials			
4	Stem/Spindle	AISI 410		AISI 304	AISI 316
5	Bonnet Stud	ASTM A 193 GR B7		ASTM A 193 GR B8	ASTM A 193 GR B 8M
6	Bonnet Stud Nut	ASTM A 194 GR 2H		ASTM A 194 GR 8	ASTM A 194 GR 8M
7	Gasket	CAF / Spiral round Metallic SS 304 / SS 316 Filled with Asbestos / Graphite			
8	Bonnet	ASTM A216 GR. WCB	ASTM A217 C5 / C12	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
9	Bonner Buch	AISI 410		AISI 304	AISI 316
10	Packing	Graphite / PTFE			
11	Gland Buch	AISI 410 / F6		AISI 304	AISI 316
12	Gland Flange	Carbon Steel		ASTM A 351 GR CF 8 / AISI 304	ASTM A 351 GR CF 8 M / AISI 316
13	Yoke Sleeve	Ni - resist Nodular Cast Iron - ASTM A 439 GR D - 2			
14	Yoke Bush	Carbon Steel		Carbon Steel (Plated)	
15	Hand Wheel	Malleable Iron / C. Oron / Carbon Steel			





CONSTRUCTION FEATURES

- Valves Code BS 1873
- End to end Dimension ANSI B 16. 10/2080
- End Flanged Flat/raised Face drilled to ANSI B 16.5/BS 1560
- Bonnet Bolted
- Stem Rising
- Disc Loose Plug
- Seat Seal WELded / REnewable - Screwed
- Stem Packing Renewable with valve open on stream
- Testing code MSS SP 61 / BS 6755 / API 598
- Handwheel rising
- Others outside Screwed and yoke



SIZE

- ANSI 150 # 50 mm To 500 mm
- ANSI 300 # 50 mm To 400 mm
- ANSI 600 # 50 mm To 300 mm





TEST PRESSURE

MATERIAL	CLASS	SHELL		SEAT		AIR SEAT TEST	
		PSIG	KSCG	PSIG	KSCG	PSIG	KSCG
A216 GR. WCB / A 217 C5 / C12 A351 CF8 / CF8C / A 351 CF 8 M	150	450	31.64	325	22.88	80-100	6-7
	300	1125	79.09	825	57.80	80-100	6-7
	600	2250	158.18	1650	116.00	80-100	6-7



MATERIAL OF SPECIFICATION

Sr. No	COMPONENT	CAST CARBON STEEL	CAST ALLOYS STEEL	CAST STAINLESS STEEL	
				SS 304	SS 316
1	Body	ASTM A216 GR. WCB	ASTM A217 C5 / C12	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
2	Seat ring	13 % CR Steel		A 351 GR CF8	A 351 GR CF8
3	Wedge	13 % CR Steel / 13 % CR Steel hard Facing on Body Materials			
4	Stem/Spindle	AISI 410		AISI 304	AISI 316
5	Bonnet Stud	ASTM A 193 GR B7		ASTM A 193 GR B8	ASTM A 193 GR B 8M
6	Bonnet Stud Nut	ASTM A 194 GR 2H		ASTM A 194 GR 8	ASTM A 194 GR 8M
7	Gasket	CAF / Spiral round Metallic SS 304 / SS 316 Filled with Asbestos / Graphite			
8	Bonnet	ASTM A216 GR. WCB	ASTM A217 C5 / C12	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
9	Bonner Buch	AISI 410		AISI 304	AISI 316
10	Packing	Graphite / PTFE			
11	Gland Buch	AISI 410 / F6		AISI 304	AISI 316
12	Gland Flange	Carbon Steel		ASTM A 351 GR CF 8 / AISI 304	ASTM A 351 GR CF 8 M / AISI 316
13	Yoke Sleeve	Ni - resist Nodular Cast Iron - ASTM A 439 GR D - 2			
14	Yoke Bush	Carbon Steel		Carbon Steel (Plated)	
15	Hand Wheel	Malleable Iron / C. Oron / Carbon Steel			





CONSTRUCTION FEATURES

- Type Swing Check
- Valve Code BS 1868
- End to End Dimension ANSI B16.10/BS1560
- Cover Bolted
- Disc Hinged
- Seat Seal Welded / Renewable - Screwed
- Testing Code MSS SP 61/BS 6755/API 598

SIZE

- ANSI 150 # 50 mm To 500 mm
- ANSI 300 # 50 mm To 400 mm
- ANSI 600 # 50 mm To 300 mm



TEST PRESSURE

MATERIAL	CLASS	SHELL		SEAT		AIR SEAT TEST	
		PSIG	KSCG	PSIG	KSCG	PSIG	KSCG
A216 GR. WCB / A 217 C5 / C12 A351 CF8/ CF8C / A 351 CF 8 M	150	450	31.64	325	22.88	80-100	6-7
	300	1125	79.09	825	57.80	80-100	6-7
	600	2250	158.18	1650	116.00	80-100	6-7



MATERIAL OF SPECIFICATION

Sr. No	COMPONENT	CAST CARBON STEEL	CAST ALLOYS STEEL	CAST STAINLESS STEEL	
1	Body	ASTM A216 GR. WCB	ASTM A217 C5 / C12	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
2	Seat ring	13 % CR Steel		ASTM - A351 GR CF8	ASTM - A351 GR CF 8M
3	Disc	13 % CR Steel /Facing on body Materials		AISI 304	AISI 316
4	Disc Nut	AISI 419	AISI 410	AISI 304	AISI 316
5	Hinge	A 216 WCB	A 217 CA 15	A 351 CF8	A 351 CF 8M
6	Hinge Pin	AISI 410	AISI 410	AISI 304	AISI 316
7	Gasket	CAF / Spiral round Metallic SS 304 / SS 316 Filled with Asbestos / Graphite			
8	Cover	ASTM A216 GR. WCB	ASTM A217 C5	ASTM A315 GR. CF8	ASTM A315 GR. CF8M
9	Cover Stud	A 193 B-7	A 193 B-7 / B16	A 193 B-8	A 193 B-8M
10	Cover Stud Nut	A 194 2H	A 194 2H / Gr6	A 194 GR-8	A 194 GR-8M

CONTACT US

Telephone : (079) 22761100 Cell : +91 90990 41771,+91 98792 78158
E-mail : info@sscast.co.in, israil111@hotmail.com Web : www.sscast.co.in



SS-CAST

UNIT - I :

23, Shree Jalaram Estate,
B/H. Chakudia Mahadev, Rakhial,
Ahmedabad 380023 (Gujarat) INDIA.

UNIT - II :

A-88 to 90, Ajit Reality Pvt Ltd.,
Ajit Mills Compound, Rakhial,
Ahmedabad 380023 (Gujarat) INDIA.

UNIT - III :

20, Shree Jalaram Estate,
B/H. Chakudia Mahadev, Rakhial,
Ahmedabad 380023 (Gujarat) INDIA.