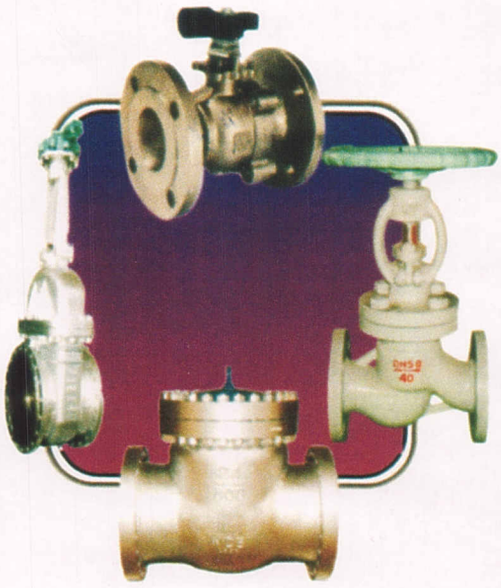
BRENT

engineered valve



SQC
SUREWIN QUALITY CERTIFICATION

Certificate

Certificate No.: Q09470

Surewin Quality Certification

Certifies that the
Quality Management System

Of

V.R.Iron Works

**Opp. Raghunath Hindi High School,
Nr. New Prem Biscuits,
Shivgiri Estate, L.B.S. Road, Bapu Nagar,
Ahmedabad 380 025.**

has been assessed and found to be in conformance to the requirements of the Quality Management Standard

IS/ISO 9001:2008

SCOPE: Manufacturer of all kind of Industrial Valves & High Pressure Ball Valv, Smll and Heavy Forging

subject to continued satisfactory conformance of governing standard, this certificate is

Valid from: Sept 12, 2009 to Sept 11, 2012

Initial Certificate No./Date of Issue: Q06213 Dt 12.09.2006

RENAR®
ACCREDITATION NO.-039-C

SUREWIN QUALITY CERTIFICATION

For Conditions of Certification, see www.surewinquality.com
Accredited by Member of international Accreditation Forum and European Accreditation

V.R. Iron Works

BRAND : "BRENT"

(I)	**List Of Manufacturing Standards**	
1	APL - Standard	
2	BS - Standard	
3	ASME - Standard	
(II)	**List Of Third Party Approvals**	
1	ISO 9001:2000	
2	DALAL MOTT MAC DONALD	
3	SGS INDIA LTD.	
4	JACOBS H & E LTD.	
5	GERMANISCHER LYLOD	
6	R I T E S	
7	DET NORSKE VERTAS (FIRE SAFE BALL VALVES)	
8	G.S.E.C. LTD.	

V.R. Iron Works

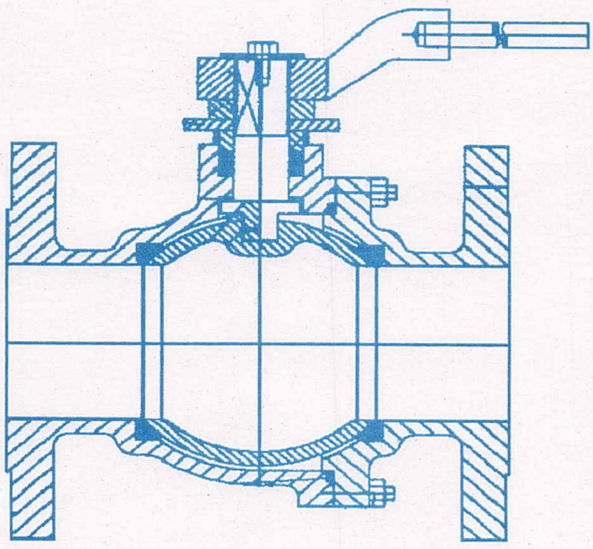
BRAND : "BRENT"

LIST OF VALUED CUSTOMERS

SR NO.	NAME OF THE PARTY	LOCATION
1	Dishman Pharma & Chemicals Limited	Bavla, Ahmedabad
2	Schutz Dishman Biotech Pvt. Ltd.	Bavla, Ahmedabad
3	Unimark Remedies Limited	Kerla, Ahmedabad
4	Unimark Remedies Limited	Vapi
5	Cadila Helthcare Ltd.	Changodar-A'bad
6	Indian Oil Corporation	Jamnagar
7	Neco Schuberts anf Salzer Limited	Nagpur
8	Gujarat Reclaim & Rubber Products Ltd.	Ankleshwara & Panoli
9	Henley Industries (India) Ltd.	Lagos, Nigeria
10	Garware Polyester Limited	Aurangabad
11	KHS Machinery Pvt. Ltd.	Ahmedabad
12	Guljag Industries Limited	Jodhpur
13	Sun Pharmaceutical Industries Ltd.	Ahmedabad
14	Friends Salt Works & Allied Industries	Kandla
15	Meck Pharmaceuticals & Chemicals Pvt. Ltd.	Sanand
16	Thermotech (Approved G.E.B. Supplier)	Baroda
17	Himalaya Enterprise (Approved ONGC Supp.)	Bombay
18	Micro Mech Product Pvt. Ltd.	Ahmedabad
19	Hussain Enterprise	Madras
20	Asha Ceelulose (I) Pvt. Ltd.	Valsad
21	Ruby Coach Builder	Ahmedabad
22	Hencom Limited	Lagos, Nigeria
23	Lanxess ABS Ltd.	Baroda + Katol
24	Shaurya Organics Pvt. Ltd.	Surendranagar
25	Bhagsons Engineers & Consultants (P) Ltd.	Alwar - Rajasthan
26	Alembic Pharma Limited.	Baroda
27		
28		

BRENT

2-PIECE FLANGED END FULL PORT BALL VALVE



ASME 150 Class

SIZE	A	B	C	D	E	F	G
15	108	9.7	35	88.9	60.5	4	16
20	117.5	10.5	43	98.5	69.9	4	16
25	127	11.2	51	108	79.2	4	16
40	165.1	14.3	73	127	98.5	4	16
50	177.8	15.9	92	152.4	120.6	4	19
65	190.5	17.5	105	178	139.7	4	19
80	203.2	19.1	127	190.5	152.4	4	19
100	228.6	23.9	157	228.6	190.5	8	19
150	266.7	25.4	216	279.4	241.3	8	22.2
200	292.1	28.6	270	343	298.5	8	22.2
250	330.2	30.2	324	406.4	362.0	12	25.4
300	355.6	31.8	381	482.6	431.8	12	25.4
350	685.8	35.1	413	533.4	476.3	12	28.6
400	762	36.6	470	597	539.8	16	28.6

ASME 300 Class

SIZE	A	B	C	D	E	F	G
15	139.7	14.3	35	95.3	66.5	4	16
20	152.4	15.9	43	117.5	82.5	4	19
25	165.1	17.5	51	124	88.9	4	19
40	190.5	20.6	73	155.5	114.3	4	22.2
50	215.9	22.2	92	165.1	127	8	19
65	241.3	25.4	105	190.5	149.4	8	22.2
80	282.6	28.6	127	209.5	168.1	8	22.2
100	304.8	31.8	157	254	200.1	8	22.2
150	403.2	36.6	216	317.5	269.8	12	22.2
200	419.1	41.2	270	381	330.2	12	25.4
250	457.2	47.8	324	444.5	387.4	16	28.6
300	501.6	50.8	381	520.7	450.9	16	31.8
350	762	53.9	413	584.2	514.4	20	31.8
400	838	57.2	470	647.7	571.5	20	35.1

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG
300	1100 PSIG	800 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 5351 / BS 5352 / API 600
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

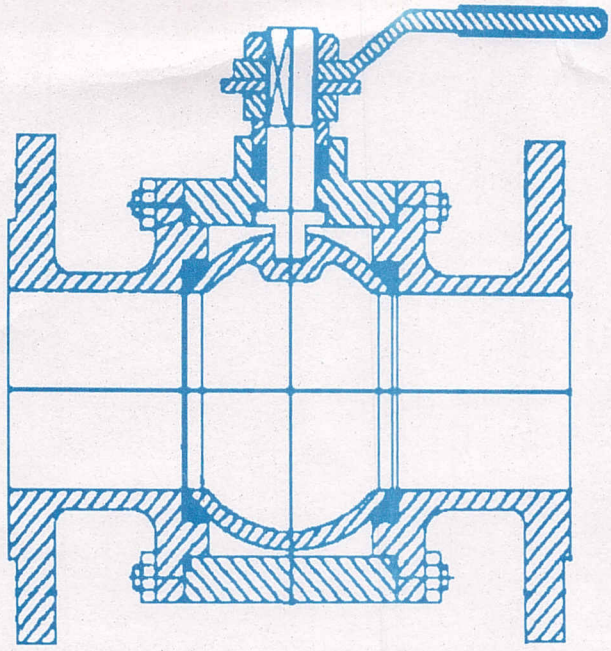
MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM			
		Type WCB	Type LCB	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Side Piece	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Ball	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
4.	Gland	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
5.	Stem	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
6.	Body Seat	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
7.	Stem Seal	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
8.	Gland Packing	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
9.	Body Seal	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
10.	Stud-Nut	A193B7/A1942H	A193B7/A1942H	A193B8/A194A8	A193B8/A194A8	A193B8/A194A8	A193B8/A194A8
11.	Lever	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

Materials : Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

3-PIECE FLANGED END FULL PORT BALL VALVE



ASME 150 Class

SIZE	A	B	C	D	E	F	G
15	108	9.7	35	88.9	60.5	4	16
20	117.5	10.5	43	98.5	69.9	4	16
25	127	11.2	51	108	79.2	4	16
40	165.1	14.3	73	127	98.5	4	16
50	177.8	15.9	92	152.4	120.6	4	19
65	190.5	17.5	105	178	139.7	4	19
80	203.2	19.1	127	190.5	152.4	4	19
100	228.6	23.9	157	228.6	190.5	8	19
150	266.7	25.4	216	279.4	241.3	8	22.2
200	292.1	28.6	270	343	298.5	8	22.2
250	330.2	30.2	324	406.4	362.0	12	25.4
300	355.6	31.8	381	482.6	431.8	12	25.4
350	685.8	35.1	413	533.4	476.3	12	28.6
400	762	36.6	470	597	539.8	16	28.6

ASME 300 Class

SIZE	A	B	C	D	E	F	G
15	139.7	14.3	35	95.3	66.5	4	16
20	152.4	15.9	43	117.5	82.5	4	19
25	165.1	17.5	51	124	88.9	4	19
40	190.5	20.6	73	155.5	114.3	4	22.2
50	215.9	22.2	92	165.1	127	8	19
65	241.3	25.4	105	190.5	149.4	8	22.2
80	282.6	28.6	127	209.5	168.1	8	22.2
100	304.8	31.8	157	254	200.1	8	22.2
150	403.2	36.6	216	317.5	269.8	12	22.2
200	419.1	41.2	270	381	330.2	12	25.4
250	457.2	47.8	324	444.5	387.4	16	28.6
300	501.6	50.8	381	520.7	450.9	16	31.8
350	762	53.9	413	584.2	514.4	20	31.8
400	838	57.2	470	647.7	571.5	20	35.1

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG
300	1100 PSIG	800 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 5351 / BS 5352 / API 600
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

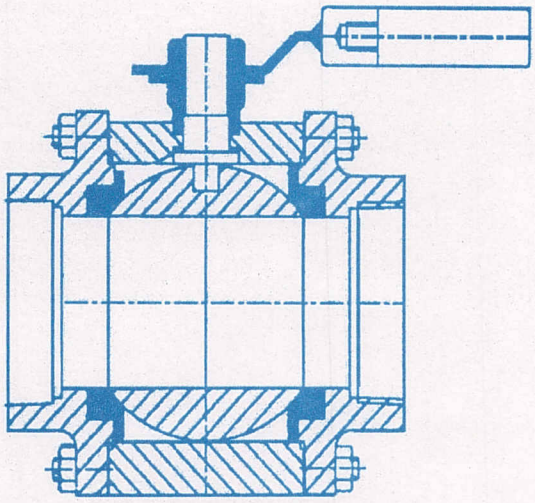
MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM			
		Type WCB	Type LCB	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Side Piece	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Ball	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
4.	Gland	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
5.	Stem	AISI 304/ 316	AISI 304/ 316	AISI 304	AISI 316	AISI 304L	AISI 316L
6.	Body Seat	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
7.	Stem Seal	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
8.	Gland Packing	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
9.	Body Seal	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT	PTFE/GFT/CFT
10.	Stud-Nut	A193B7/A1942H	A193B7/A1942H	A193B8/A194A8	A193B8/A194A8	A193B8/A194A8	A193B8/A194A8
11.	Lever	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel

Materials : Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

3-PIECE FULL PORT BALL VALVE



ASME 800 Class

SIZE	A	Soket I D	Depth	Scrw.
15	90	21.8	10	1/2" NPT/BSP
20	95	27.4	13	3/4" NPT/BSP
25	100	34.1	13	1" NPT/BSP
40	120	49.0	13	1.1/2" NPT/BSP
50	150	61.0	16	2" NPT/BSP

ASME 1500 Class

SIZE	A	Soket I D	Depth	Scrw.
15	90	21.8	10	1/2" NPT/BSP
20	110	27.4	13	3/4" NPT/BSP
25	120	34.1	13	1" NPT/BSP
40	150	49.0	13	1.1/2" NPT/BSP
50	180	61.0	16	2" NPT/BSP

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
800	3000 PSIG	2000 PSIG
1500	5500 PSIG	4060 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : ASME B16.34 / API 600
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

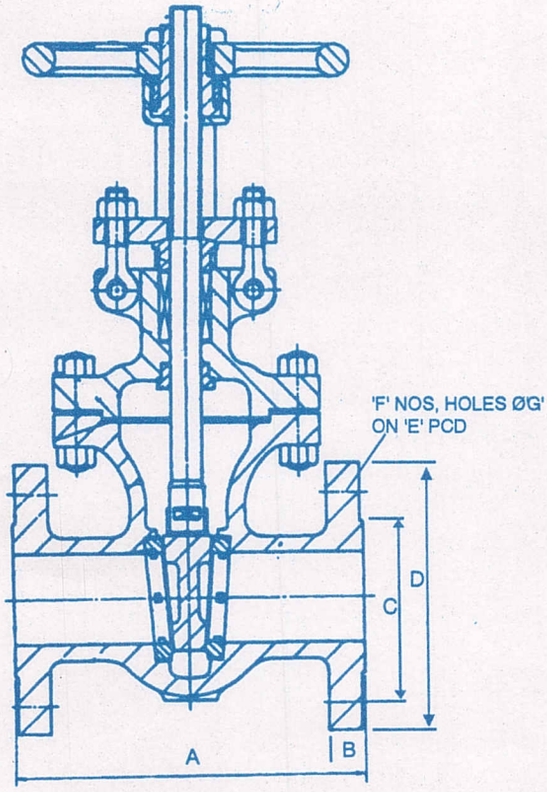
MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Carbon Steel to ASTM	Stainless Steel to ASTM	
		A 105	A 182 F304	A 182 F 316
1.	Body	A 105	A 182 F304	A 182 F 316
2.	Side Piece	A 105	A 182 F304	A 182 F 316
3.	Ball	AISI 304/ 316	AISI 304	AISI 316
4.	Gland	AISI 304/ 316	AISI 304	AISI 316
5.	Stem	AISI 304/ 316	AISI 304	AISI 316
6.	Body Seat	GFT/CFT	GFT/CFT	GFT/CFT
7.	Stem Seal	GFT/CFT	GFT/CFT	GFT/CFT
8.	Gland Packing	GFT/CFT	GFT/CFT	GFT/CFT
9.	Body Seal	GFT/CFT	GFT/CFT	GFT/CFT
10.	Stud-Nut	A193B7/A1942H	A193B8/A194A8	A193B8/A194A8
11.	Lever	Carbon Steel	Stainless Steel	Stainless Steel

BRENT

GATE VALVE

(ASME 150/ASME 300 CLASS)



ASME 150 Class

SIZE	A	B	C	D	E	F	G
25	127	14	51	108	79	4	16
40	165	14	73	127	98	4	16
50	178	16	92	152	121	4	19
65	190	17	105	178	140	4	19
80	203	19	127	190	152	4	19
100	229	24	157	229	190	8	19
125	254	24	186	254	216	8	22
150	267	25	216	278	241	8	22
200	292	28	270	343	298	8	22
250	330	30	324	406	362	12	25
300	356	32	381	483	432	12	25

ASME 300 Class

SIZE	A	B	C	D	E	F	G
40	191	21	73	156	114	4	22
50	216	22	92	165	127	8	19
65	241	25.4	105	190	149	8	22
80	283	29	127	210	168	8	22
100	305	32	157	254	200	8	22
150	403	37	216	318	270	12	22
200	419	41	270	381	330	12	25
250	457	48	324	444	387	16	29
300	502	51	381	521	451	16	32

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG
300	1100 PSIG	800 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 1414 / API 600
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

MATERIAL OF CONSTRUCTION :

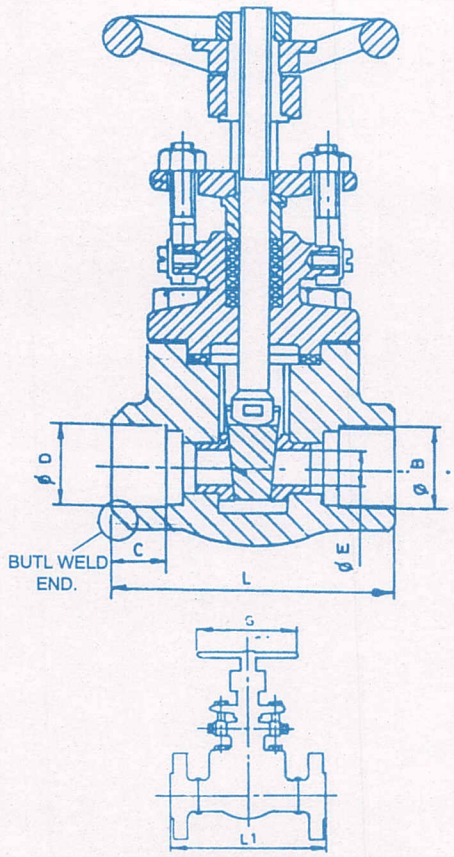
Sr. No.	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM	Stainless Steel to ASTM			
		Type WCB	Type LCB	Type WC6	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Bonnet	A216 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Wedge	A216 WCB/ 13%Cr.	A351 CF8	A217 WC6/ 13%Cr.	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4.	Seat Ring	Facing	A351 CF8	Facing	Integral			
5.	Stem	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304L	AISI 316L
6.	Gland	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304L	AISI 316L
7.	Back Seat	AISI 410	AISI 304	AISI 410	Integral			
8.	Gasket	Compressed Asbestos of Soft Iron						
9.	Packing	Graphited Asbestos			PTFE Imprignated Asbestos			
10.	Studs	A193 B7				A193 B7		
11.	Nuts	A194 2H				A194 2H		
12.	Sleeve				Brass or NI-Resist			
13.	Handwheel				Malleable Iron			

Materials : Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

GATE VALVE

(ASME 800/ASME 1500 CLASS)



ASME 800 Class

SIZE	L	SW D	C	Thread B	600 Class L1
15	87	21.7	9.5	NPT	165
20	90	27.1	12.7	NPT	190
25	105	33.8	12.7	NPT	216
40	128	48.6	12.7	NPT	241
50	142	61.1	16	NPT	292

ASME 1500 Class

SIZE	L	SW D	C	Thread B
15	103	21.7	9.5	NPT
20	140	27.1	12.7	NPT
25	140	33.8	18	NPT
40	160	48.6	32	NPT

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
800	3000 PSIG	2000 PSIG
1500	5500 PSIG	4060 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 5352 / API 602
Face to face : ASME B 16.10
Tasting Std. : API 598

MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Forged Steel
1.	Body	ASTM A 105
2.	Bonnet	ASTM A 105
3.	Wedge	13% Cr. Steel
4.	Stem	13% Cr. Steel
5.	Seat Ring	13% Cr. Steel
6.	Gasket	Spiral Wound
7.	Gland Bush	13% Cr. Steel
8.	Gland Flange	Carbon Steel
9.	Yoke Sleeve Nut	Carbon Steel
10.	Hand Wheel	Carbon Steel
11.	Studs	ASTM A 193 B 7
12.	Nuts	ASTM A 194 2 H

Materials : Type ASTM A 182 - F 304 / ASTM A 182 - F 316

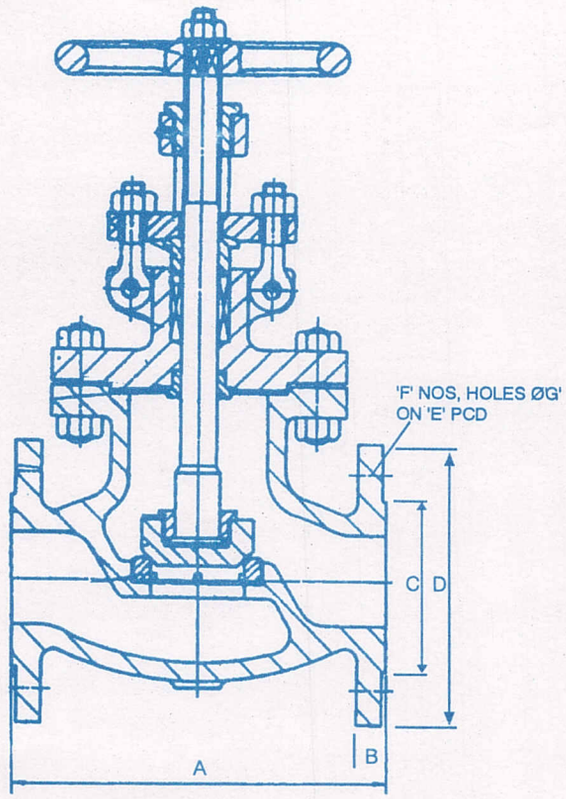
SPECIFICATION

BOLTED COVER BODY AND BONNET OF FORGED CARBON STEEL A 105 SOLID WEDGE GATE OUT SIDE SCREW AND YOKE 13 % CHROME TRIM CLASS 800 PSIG AT 850 F° FOR SCREWED OR SOCKET WELD AND CLASS 600 AT 850 F° FOR FLANGED DESIGN.

BRENT

GLOBE VALVE

(ASME 150/ASME 300 CLASS)



ASME 150 Class

SIZE	A	B	C	D	E	F	G
25	127	14	51	108	79	4	16
40	165	17	73	127	98	4	16
50	203	19	92	152	121	4	19
65	216	22	105	178	140	4	19
80	241	24	127	190	152	4	19
100	292	24	157	229	190	8	19
125	356	24	186	254	216	8	22
150	406	25	216	279	241	8	22
200	495	29	270	343	298	8	22
250	622	30	324	406	362	12	25
300	699	32	381	483	431	12	25

ASME 300 Class

SIZE	A	B	C	D	E	F	G
25	203	17	51	124	89	4	19
40	229	20	73	155	114	4	22
50	267	22	92	165	127	8	19
65	292	25	105	190	149	8	22
80	317	29	127	210	168	8	22
100	356	32	157	254	200	8	22
125	375	35	186	279	235	8	22
150	445	37	216	318	270	12	22
200	533	41	270	381	330	12	25
250	622	48	324	445	387	16	28

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG
300	1100 PSIG	800 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 1873 / API 600
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

MATERIAL OF CONSTRUCTION :

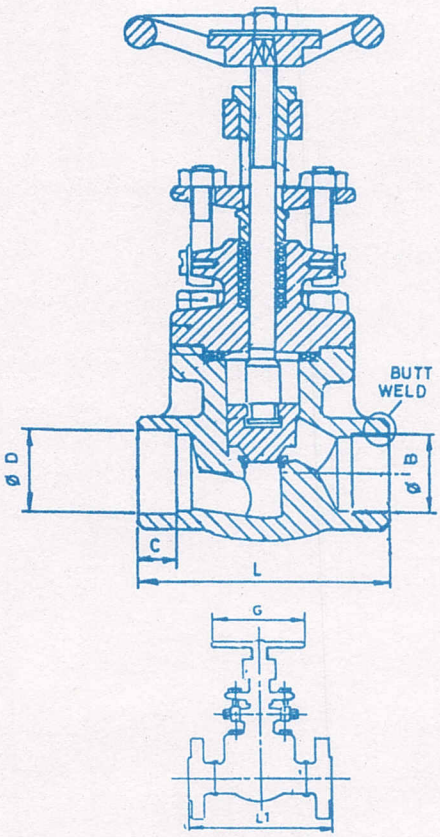
Sr. No.	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM	Stainless Steel to ASTM			
		Type WCB	Type LCB	Type WC6	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Bonnet	A216 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Disc	A216 WCB/ 13%Cr.	A351 CF8	A217 WC6/ 13%Cr.	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4.	Seat Ring	Facing	A351 CF8	Facing	Integral			
5.	Disc Nut	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304L	AISI 316L
6.	Stem	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304L	AISI 316L
7.	Gland	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304L	AISI 316L
8.	Back Seat	AISI 410	AISI 304	AISI 410	Integral			
9.	Gasket	Compressed Asbestos of Soft Iron						
10.	Packing	Graphited Asbestos			PTFE Imprignated Asbestos			
11.	Studs	A193 B7			A193 B7			
12.	Nuts	A194 2H			A194 2H			
13.	Yoke Bush	Brass or NI-Resist						
14.	Handwheel	Malleable Iron						

Materials : Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

GLOBE VALVE

(ASME 800/ASME 1500 CLASS)



ASME 800 Class

SIZE	L	SW D	C	Thread B	600 Class L1
15	87	21.7	9.5	NPT	165
20	90	27.1	12.7	NPT	190
25	105	33.8	12.7	NPT	216
40	128	48.6	12.7	NPT	241
50	142	61.1	16	NPT	292

ASME 1500 Class

SIZE	L	SW D	C	Thread B
15	103	21.7	9.5	NPT
20	140	27.1	12.7	NPT
25	140	33.8	12.7	NPT
40	160	48.6	12.7	NPT

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
800	3000 PSIG	2000 PSIG
1500	5500 PSIG	4060 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 5352 / API 602
Face to face : ASME B 16.10
Tasting Std. : API 598

MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Forged Steel
1.	Body	ASTM A 105
2.	Bonnet	ASTM A 105
3.	Disc	13% Cr. Steel
4.	Stem	13% Cr. Steel
5.	Seat Ring	13% Cr. Steel
6.	Gasket	Spiral Wound
7.	Gland Bush	13% Cr. Steel
8.	Gland Flange	Carbon Steel
9.	Yoke Sleeve Nut	Carbon Steel
10.	Hand Wheel	Carbon Steel
11.	Studs	ASTM A 193 B 7
12.	Nuts	ASTM A 194 2 H

Materials : Type ASTM A 182 - F 304 / ASTM A 182 - F 316

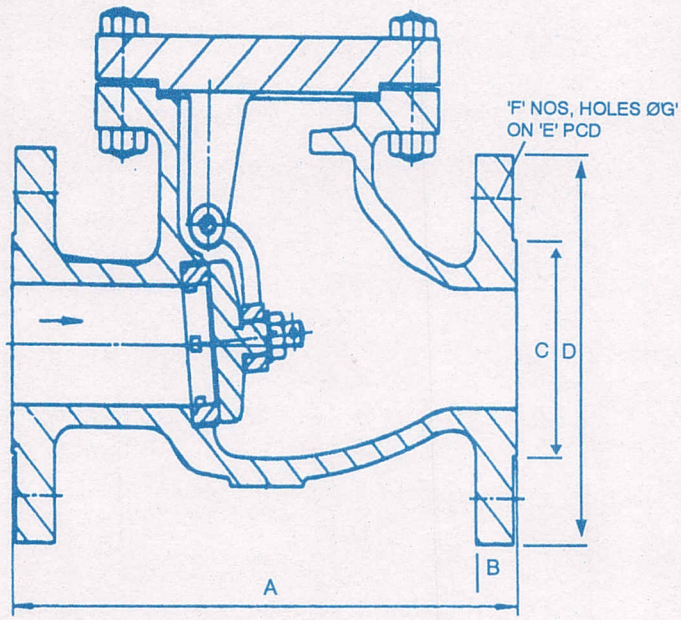
SPECIFICATION

BOLTED COVER BODY AND BONNET OF FORGED CARBON STEEL A 105 PLUG TYPE DISC OUT SIDE SCREW AND YOKE 13 % CHROME TRIM CLASS 800 PSIG AT 850 F FOR SCREWED OR SOCKET WELD AND CLASS 600 AT 850 F FOR FLANGED DESIGN.

BRENT

SWING CHECK VALVE

(ASME 150/ASME 300 CLASS)



ASME 150 Class

SIZE	A	B	C	D	E	F	G
25	127	14	51	108	79	4	16
40	165	17	73	127	98	4	16
50	203	16	92	152	121	8	19
65	216	17.5	105	178	139.5	8	22
80	241	19	127	190	152.5	8	22
100	292	24	157	229	190.5	8	22
150	356	25.4	216	289	241.5	8	22
200	495	29	270	343	298.5	12	22
250	622	30	324	406	362	12	25
300	698	32	381	483	432	16	28

ASME 300 Class

SIZE	A	B	C	D	E	F	G
25	203	17	51	124	89	4	19
40	229	20	73	155	114	4	22
50	267	22	92	165	127	8	19
65	292	25.4	105	190	149.5	8	22
80	318	29	127	210	168	8	22
100	356	32	157	254	200	8	22
150	444	37	216	318	270	12	22
200	533	41	270	381	330	12	25
250	622	48	324	444	387	16	29
300	711	51	381	521	451	16	32

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG
300	1100 PSIG	800 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 1868
Face to face : ASME B 16.10
Tasting Std. : BS 6755 / API 598

MATERIAL OF CONSTRUCTION :

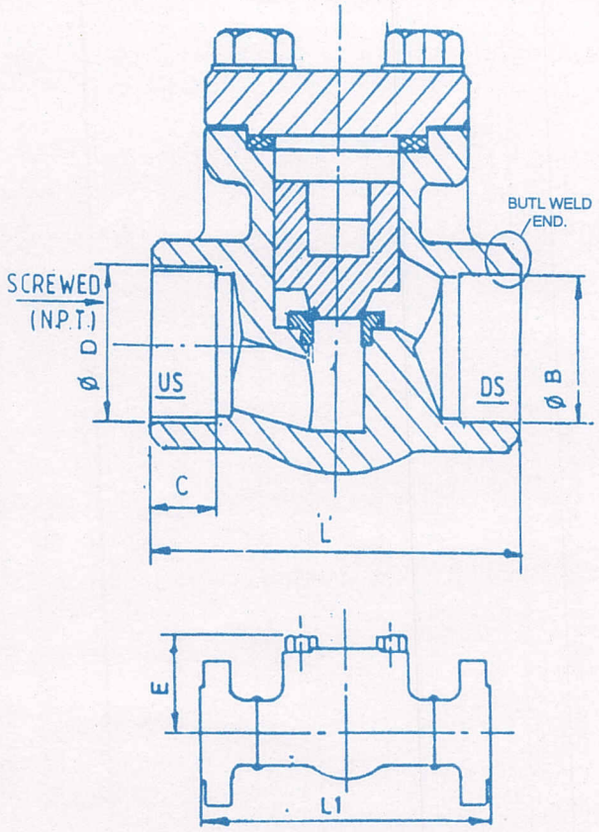
Sr. No.	Part Name	Carbon Steel to ASTM		Alloy Steel to ASTM	Stainless Steel to ASTM			
		Type WCB	Type LCB	Type WC6	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Cover	A216 WCB	A352 LCB	A217 WC6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Disc	A216 WCB/ 13%Cr.	A351 CF8	A217 WC6/ 13%Cr.	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4.	Seat Ring	Facing	A351 CF8	Facing		Integral		
5.	Hinge	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304	AISI 316L
6.	Disc Nut	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304	AISI 316L
7.	Hinge Pin	AISI 410	AISI 304	AISI 410	AISI 304	AISI 316	AISI 304	AISI 316L
8.	Gasket	Compressed Asbestos of Soft Iron						
9.	Studs	A193 B7				A193 B7		
10.	Nuts	A194 2H				A194 2H		

Materials . Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

LIFT CHECK VALVE

(ASME 800/ASME 1500 CLASS)



ASME 800 Class

SIZE	L	SW D	C	Thread B	600 Class L1
15	87	21.7	9.5	NPT	165
20	90	27.1	12.7	NPT	190
25	105	33.8	12.7	NPT	216
40	128	48.6	12.7	NPT	241
50	142	61.1	16	NPT	292

ASME 1500 Class

SIZE	L	SW D	C	Thread B
15	103	21.7	9.5	NPT
20	140	21.7	12.7	NPT
25	140	33.8	12.7	NPT
40	160	48.6	12.7	NPT

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
800	3000 PSIG	2000 PSIG
1500	5500 PSIG	4060 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 5352 / API 602
Face to face : ASME B 16.10
Tasting Std. : API 598

MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Forged Steel
1.	Body	ASTM A 105
2.	Cover	ASTM A 105
3.	Disc	13% Cr. Steel
4.	Seat Ring	13% Cr. Steel
5.	Gasket	Spiral Wound
6.	Studs	ASTM A 193 B 7
7.	Nuts	ASTM A 194 2 H

Materials : Type ASTM A 182 - F 304 / ASTM A 182 - F 316

SPECIFICATION

BOLTED COVER BODY AND COVER OF FORGED CARBON STEEL A 105 PLUG TYPE DISC 13 % CHROME TRIM CLASS 800 PSIG AT 850 F FOR SCREWED OR SOCKET WELD AND CLASS 600 AT 850 F FOR FLANGED DESIGN.

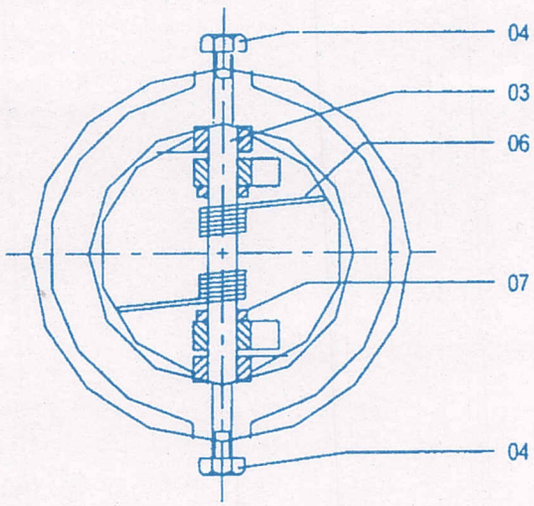
BRENT

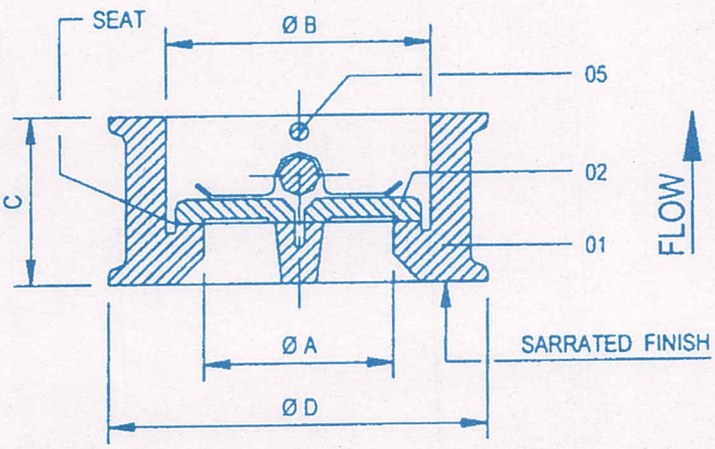
DUAL PLATE CHECK VALVE

TECHNICAL DATA
MANUFACTURING STD. : API 594
TESTING & INSPECTION STD. : API 598
FACE TO FACE : API 594

WEFER TYPE
LUG TYPE
FLANGED TYPE

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	S.S. - ASTM A351 CF8 / CF8M	1
		C.I. - IS:210 GR. FG 200	
		ASTM A 216 GR. WCB	
02	DISC	A351 GR. CF8M	2
03	HINGE PIN	AISI 304 / AISI 316	1
04	PLUG	AISI 304 / AISI 316	2
05	STOP PIN	AISI 304 / AISI 316	1
06	SPRING	AISI 304 / AISI 316	2
07	BEARING	AISI 304 / AISI 316	1





SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
	●	●		

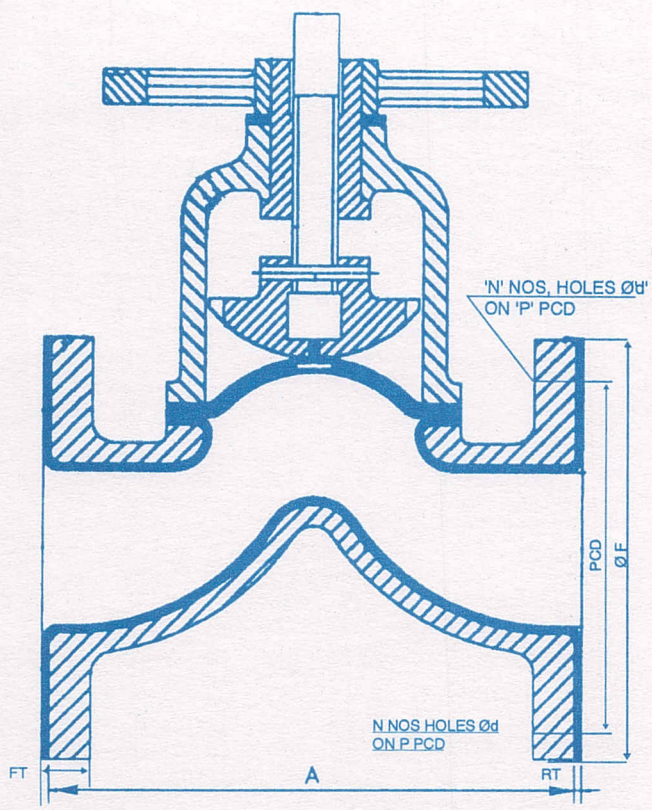
CLASS - 150				
SIZE	ø A	ø B	C	ø D
50	50	60	60	105
65	65	75	67	124
80	76	90	73	134
100	100	115	73	172
125	125	135	83	196
150	150	165	98	220
200	200	220	127	276
250	250	265	146	338
300	300	320	181	407
350	350	350	184	448
400	400	400	191	514
450	450	450	203	549
500	500	500	219	603
600	600	600	222	718

TEST PRESSURE BAR		
CLASS	SHELL	SEAT
150	21	11

BRENT

DIAPHRAGM VALVE

(ASME150 CLASS)



ASME 150 Class

SIZE	A		F	FT	P	N	D	RT
	UNLINED	LINED						
15	108	114	90	11.1	60.3	4	15.9	3
20	118	124	98	11.1	69.8	4	15.9	3
25	127	133	108	11.1	79.4	4	15.9	3
40	159	165	127	14.3	98.4	4	15.9	3
50	191	199	162	15.9	120.6	4	19.0	4
65	216	224	178	17.5	139.7	4	19.0	4
80	254	262	190	19.0	152.4	4	19.0	4
100	305	315	229	23.8	190.5	8	19.0	4
150	406	416	279	25.4	241.3	8	22.2	5
200	521	531	343	28.6	298.4	8	22.2	5

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
125	225 PSIG	150 PSIG
150	425 PSIG	300 PSIG

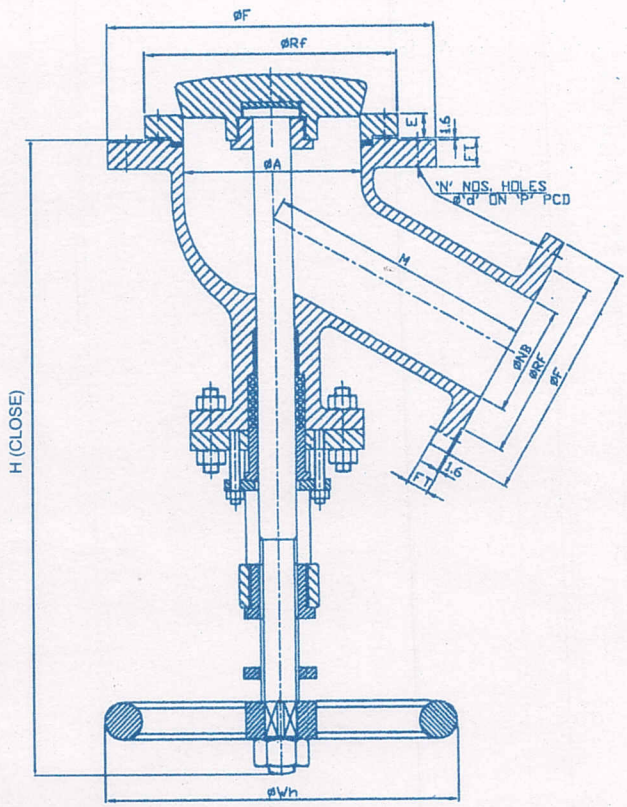
MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM	
		Cast Iron	Type WCB	Type CF8	Type CF8M
1.	Body	IS 210/FG 200	A126 WCB	A351 CF8	A351 CF8M
2.	Bonnet	IS 210/FG 200	A216 WCB	A351 CF8	A351 CF8M
3.	Spindle	AISI 410	AISI 410	AISI 304	AISI 316
4.	Bush	IS 318 Gr. 2	IS 318 Gr. 2	AISI 304	AISI 316
5.	Diaphragm	Nitrile / Neoprene/ EPDM / PTFE / GFT			
6.	Diaphragm Holder	IS 210/FG 200	A216 WCB	A351 CF8	A351 CF8M
7.	Lining	Nitrile / Neoprene/ Ebonite / EPDM / PTFE / GFT / Glass Lining			
8.	Wheel Pin	Carbon Steel	AISI 410	AISI 304	AISI 316
9.	Hand Wheel	IS 210/FG 200	IS 210 / CS	C.S.	C.S.
	Stud-Nuts	Carbon Steel	A 193 B7/194 2H	S.S.	S.S.

BRENT

FLUSH BOTTOM TANK VALVE

(ASME 150 CLASS)



ASME 150 Class

SIZE	ØNB	A	ØF	FT	ØRF	P
15	12.5	15	88.9	9.7	35	60.5
20	19	22	98.5	10.5	43	69.9
25	25.4	28	108	11.2	51	79.2
40	38.1	42	127	14.3	73	98.5
50	50.8	56	152.4	15.9	92	120.6
65	63.5	68	178	17.5	105	139.7
80	76.2	82	190.5	19.1	127	152.4
100	101.6	108	228.6	23.9	157	190.5
125	127	135	254	23.9	186	215.9
150	152.4	158	279.4	25.4	216	241.3
200	203.2	215	343	28.6	270	298.5
250	254	268	406.4	30.2	324	362.0
300	305	318	482.6	31.8	381	431.8

SIZE	ØD	N	ØWH	H	E	M
15	16	4	100	250	10	100
20	16	4	100	260	10	110
25	16	4	160	282	10	110
40	16	4	200	360	12	140
50	19	4	200	389	15	155
65	19	4	200	410	15	150
80	19	4	200	439	15	180
100	19	8	250	491	18	200
125	22.2	8	250	515	18	220
150	22.2	8	300	570	20	240
200	22.2	8	350	645	20	275
250	25.4	12	400	795	22	315
300	25.4	12	400	896	25	350

All Dimensions Are in m.m.

HYDRAULIC TEST PRESSURE

Class	Body	Seat
150	425 PSIG	300 PSIG

APPLICABLE STANDARDS :

Mfg. Std. : BS 1873
Face to face : MFG STD.
Tasting Std. : BS 6755 / API 598

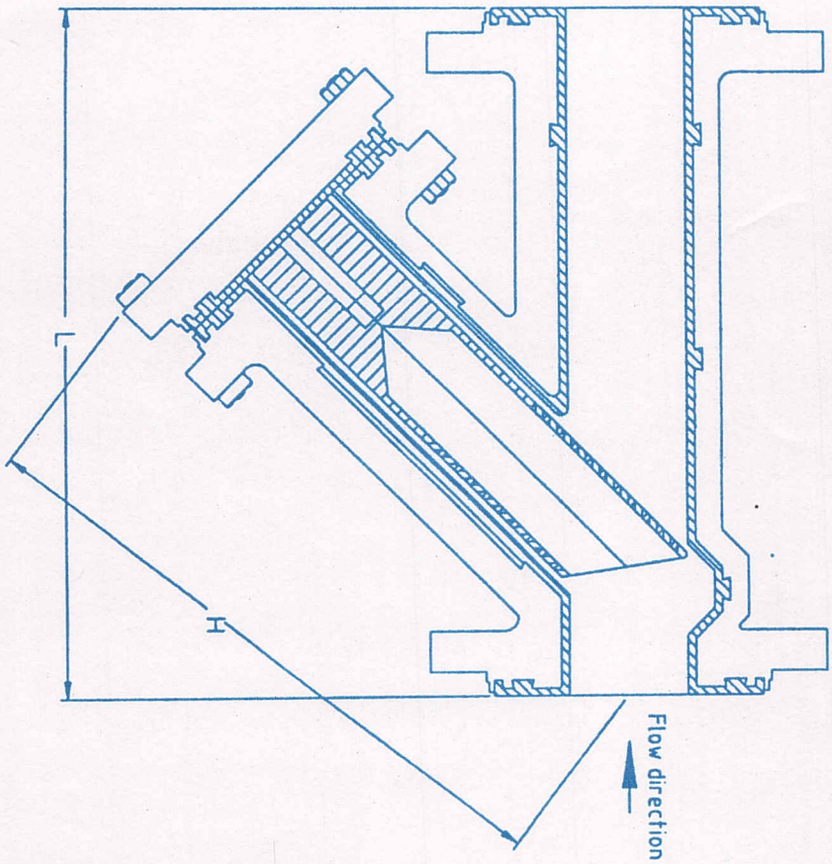
MATERIAL OF CONSTRUCTION :

Sr. No.	Part Name	Carbon Steel to ASTM	Alloy Steel to ASTM		Stainless Steel to ASTM	
		Type WCB	Type CF8	Type CF8M	Type CF3	Type CF3M
1.	Body	A126 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2.	Bonnet	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3.	Disc	A216 WCB/ 13%Cr.	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4.	Seat Ring	Facing		Integral		
5.	Disc Nut	AISI 304	AISI 304	AISI 316	AISI 304L	AISI 316L
6.	Spindle	AISI 304	AISI 304	AISI 316	AISI 304L	AISI 316L
7.	Gland Packing	AISI 304	AISI 304	AISI 316	AISI 304L	AISI 316L
8.	Gland Flange	AISI 304		Integral		
9.	Bearing Bush		Compressed Asbestos of Soft Iron			
10.	Gland Bush	Graphited Asbestos		PTFE Imprignated Asbestos		
11.	Studs Nuts	A193 B7		A193 B7		
12.	Stopper	AISI 304	AISI 304	AISI 316	AISI 316L	AISI 316L
13.	Yoke Bush		Brass or NI-Resist			
14.	Handwheel		Malleable Iron			

Materials : Type Alloy-20, Monel, Hastelloy B & C on Request.

BRENT

PFA / FEP LINED Y TYPE STRAINER



Bill of Material		
Sr.	**Part Name**	**Material**
1.	Body	MS
Flange are drilled to be ANSI B 16.5		
Flange will be 150 #		
Strainer Net : PTFE		

Dimension Chart (All Dimensions are in mm)

Nominal Bore		Lining Thichness	L	A
Inches	mm			
1	25	3	160	93
1 ½	32	3	200	120
1 ½	40	3	200	120
2	50	3	230	145
3	80	4	310	185
4	100	4	350	220