

VTI BALL VALVES



VTI BALL VALVE TRUUNION MOUNTED (150 / 300 / 600 CLASS)

FEATURES

- Low Operating Torque.
- Blowout Proof Design & Antistatic Device
- Design Std.: BS5351, Testing as per Bs6755 Part I
- Face to Face Dimensions as per ANSI B 16.10/BS 2080
- Fire as per API 607/BS 6755 Part II
- Full / Reduced Bore
- Flange drilling as per ANSI B 16.5, RF Serrated

ON REQUEST

- Extended Spindle for Cryogenic Service
- Locking arrangement
- Gear/Pneumatic/Electrical Actuator
- NACE as per MR-01-75
- Double Block & Bleed
- Emergency sealant injection
- Metal Seated Valve

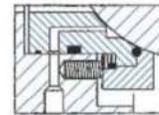
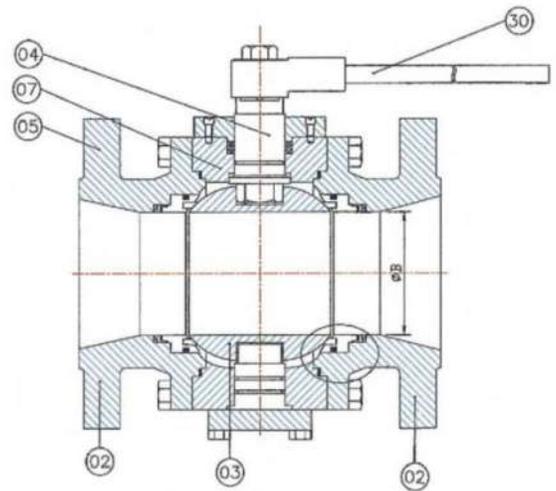
PLEASE CONSULT US

- High Temp. / Cryogenic Service
- Other material
- Other trim material
- Fully Jacketed Valve
- Higher end connections
- Other End Connections
- Top Entry Design

Material of Construction

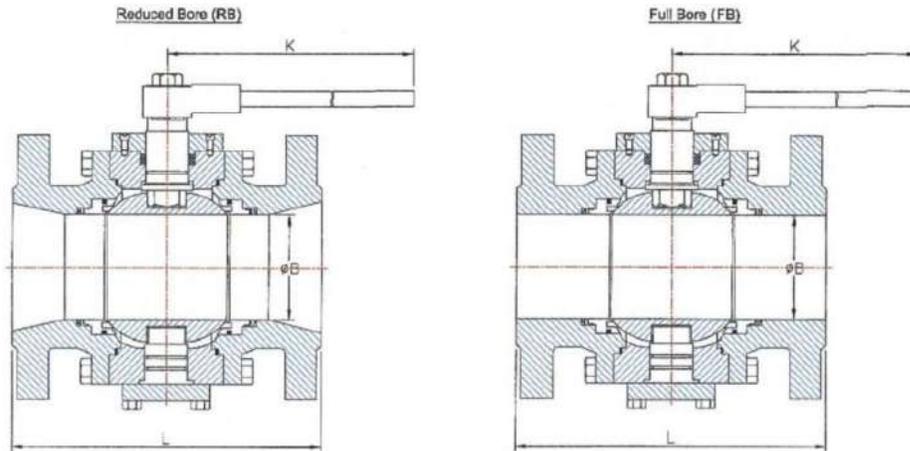
30. Lever	: CS Galvanized
07. Body Seat	: PTFE/GFT/CFT
05. Gland	: A105/CF8/CF8M
04B. Stem Seal	: Graphoil/PTFE/Viton
04. Stem	: SS 410/SS304/SS316
03. Ball	: 13% Cr /WCB+13%Cr / A105 ENP coated / CF8/CF8M
02. End Piece	: WCB/A105/A105 ENP coated/CF8/CF8M
01A,B. Body Seal	: Graphoil / Sp. Wound Ss304 + Graphoil/PTFE
01. Body	: WCB/A105/A105 ENP coated/CF8/CF8M

All Fasteners are as per A193 Gr. B7 / A194 Gr. 2H. Other grades on request.



DETAIL 'A'

VTI BALL VALVE TRUUNION MOUNTED (150 / 300 / 600 CLASS)



Dimensions

SIZE	L			B		K						Weight (Kgs)					
	CLASS			BORE		150		300		600		150		300		600	
	150	300	600	RB	FB	RB	FB	RB	FB	RB	FB	RB	FB	RB	FB	RB	FB
50	178	216	292	38	50	184	307	184	307	240	602	10.8	15	15.2	20	19	25
65	190	241	330	50	65	307	482	307	502	602	602	17.5	22	26	34	36	52
80	203	283	356	58	76	482	482	502	602	602	625	25	30	38	43	68	90
100	229	305	432	76	102	482	602	602	**	625	**	34	42	54	76	105	140
150	394	403	559	102	152	800	**	**	**	**	**	52	90	94	140	190	262
200	457	419	660	152	203	**	**	**	**	**	**	100	170	156	225	340	412
250	533	457	787	152	254	**	**	**	**	**	**	190	265	250	345	490	635
300	610	502	838	203	305	**	**	**	**	**	**	290	390	400	490	800	960
350	686	764	889	254	336	**	**	**	**	**	**	430	475	605	665	1045	1325
400	762	838	991	305	387	**	**	**	**	**	**	560	775	745	925	1520	1785
450	864	914	1093	337	438	**	**	**	**	**	**	840	925	995	1125	1860	2010
500	914	991	1194	387	489	**	**	**	**	**	**	960	1015	1335	1555	2150	2300
600	1067	1143	1397	489	591	**	**	**	**	**	**	1025	2050	2450	2800	3250	3900
650	1143	1245	1448	540	737	**	**	**	**	**	**	2000	3200	3020	4100	**	**
700	1245	1346	1549	591	**	**	**	**	**	**	**	**	**	**	**	**	**
750	1295	1397	1651	591	**	**	**	**	**	**	**	**	**	**	**	**	**
800	1372	15243	**	635	**	**	**	**	**	**	**	**	**	**	**	**	**
900	1524	1626	**	737	**	**	**	**	**	**	**	**	**	**	**	**	**

Notes:

- : *Worm Gear Operated
- : ** Dimensions on request 2/3-piece construction to our option.
- : All Dimensions are in mm
- ∴ All data is for information only subject to change without notice

VTI BALL VALVE TRUUNION MOUNTED (900 / 1500 / 2500 CLASS)

FEATURES

- Low Operating Torque.
- Blowout Proof Design & Antistatic Device
- Design Std.: BS5351, Testing as per Bs6755 Part I
- Face to Face Dimensions as per ANSI B 16.10/BS 2080
- Fire as per API 607/BS 6755 Part II
- Full / Reduced Bore
- Flange drilling as per ANSI B 16.5, RF Serrated

ON REQUEST

- Extended Spindle for Cryogenic Service
- Locking arrangement
- Gear/Pneumatic/Electrical Actuator
- NACE as per MR-01-75
- Double Block & Bleed
- Emergency sealant injection
- Metal Seated Valve

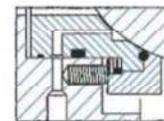
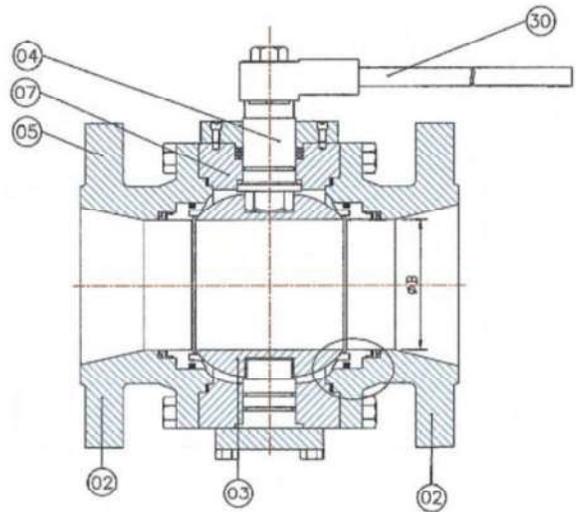
PLEASE CONSULT US

- High Temp. / Cryogenic Service
- Other material
- Other trim material
- Fully Jacketed Valve
- Higher end connections
- Other End Connections
- Top Entry Design

Material of Construction

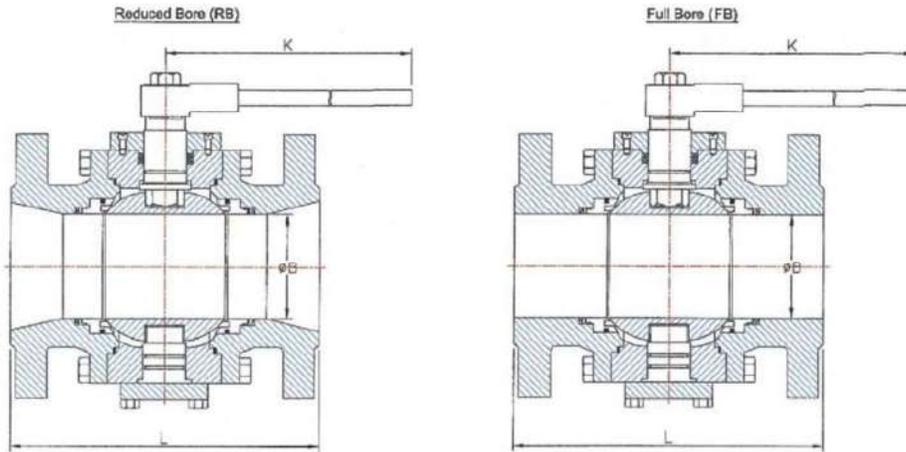
30. Lever	: CS Galvanized
07. Body Seat	: PTFE/GFT/CFT
05. Gland	: A105/CF8/CF8M
04B. Stem Seal	: Graphoil/PTFE/Viton
04. Stem	: SS 410/SS304/SS316
03. Ball	: 13% Cr /WCB+13%Cr / A105 ENP coated / CF8/CF8M
02. End Piece	: WCB/A105/A105 ENP coated/CF8/CF8M
01A,B. Body Seal	: Graphoil / Sp. Wound Ss304 + Graphoil/PTFE
01. Body	: WCB/A105/A105 ENP coated/CF8/CF8M

All Fasteners are as per A193 Gr. B7 / A194 Gr. 2H. Other grades on request.



DETAIL 'A'

VTI BALL VALVE TRUUNION MOUNTED (900 / 1500 / 2500 CLASS)



Dimensions

SIZE	L			B			K						Weight (Kgs)					
	CLASS			BORE			900		1500		2500		900		1500		2500	
	900	1500	2500	RB	FB	2500	RB	FB	RB	FB			RB	FB	RB	FB		
50	368	368	451	38	50	44.5	550	550	550	550	*		39	52	38	52	90	
65	419	419		50	64		550	550	550	550			75	90	75	90		
80	381	470	578	64	76	63.5	*	*	*	*	*		105	145	135	220	200	
100	457	546	673	76	102	89	*	*	*	*	*		200	250	300	355	350	
150	610	705	914	102	152	133	*	*	*	*	*		315	395	355	450	800	
200	737	832	1022	146	194	181	*	*	*	*	*		580	685	650	775	1400	
250	838	991	1270	146	241	226	*	*	*	*	*		820	980	890	1125	2200	
300	965	1130	1422	194	289	267	*	*	*				1220	1375	1250	1580	3310	
350	1050			254	336		*	*					1490	1650				
400	1130						*						1620	1880				

Notes:

- : *Worm Gear Operated
- : 2/3-piece construction to our option.
- : All Dimensions are in mm
- ∴ All data is for information only subject to change without notice

VTI BALL VALVE (SCREWED / SOCKET WELD ENDS)

FEATURES

- Low Operating Torque.
- Blowout Proof Design & Antistatic Device
- Design Std.: BS5351, Testing as per Bs6755 Part I
- Screwed ends to BS21(Parallel/taper) /A
- Socket Weld ends as per ANSI B 1611
- Fire as per API 607/BS 6755 Part II
- Floating Ball Design

ON REQUEST

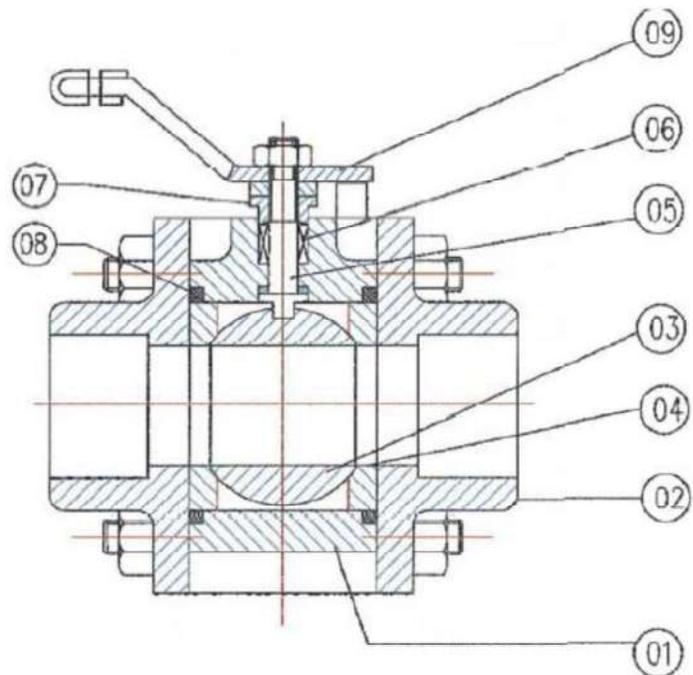
- Extended Spindle for Cryogenic Service
- Locking arrangement
- Gear/Pneumatic/Electrical Actuator
- Metal Seated Valve
- NACE as per MR-01-75
- Extended Nipple

PLEASE CONSULT US

- High Temp. / Cryogenic Service
- Other material
- Other trim material
- Fully Jacketed Valve
- Other End Connections
- Top Entry Design

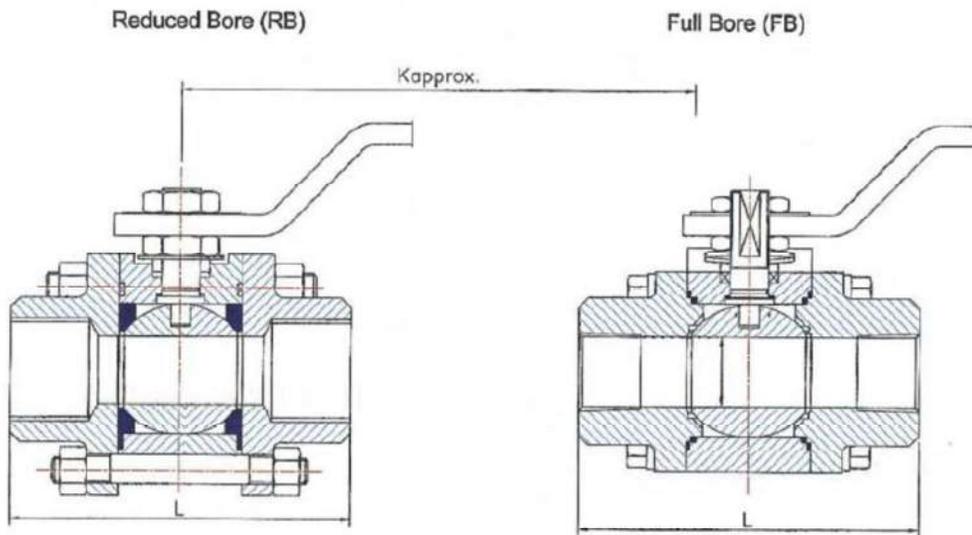
Material of Construction

09. Handle	: CS Galvanized
08. Body Seal	: Graphoil / PTFE
07. Thrust Washer	: PTFE
06. Stem Seal	Graphoil/PTFE
05. Stem	: SS410/SS304/SS316
04. Body Seat	PTFE/GFT/CFT
03. Ball	: 13% Cr. /A105 ENP coated / CF8/CF8/M
02. End Piece	:A105/A105 ENP coated /A182 Gr, F304/316
01. Body	: A105/A105 ENP coated /A182 Gr. F304/316



All Fasteners are as per A193 Gr. B7 / A194 Gr. 2H. Other grades on request.

VTI BALL VALVE (SCREWED / SOCKET WELD ENDS)



Dimensions

SIZE	L		B		K	
mm	Class		800/1500		800/1500	
8	800	1500	RB	FB	RB	FB
10	64	64	9.6	9.6	140	140
15	64	64	9.6	9.6	140	140
20	64	64	9.6	13	140	140
25	70	70	13	19	140	175
32	88	88	19	25	175	175
40	105	105	25	32	175	184
50	114	114	32	38	184	184



Notes:

- : 2/3-piece construction to our option.
- : All Dimensions are in mm
- ∴ All data is for information only subject to change without notice

VTI BALL VALVE (TOP ENTRY)

FEATURES

- Low Operating Torque.
- Blowout Proof Design & Antistatic Device
- Design Std.: BS5351ASPI 6D, Testing as per BS6755 Part I
- Face to Face Dimensions as per ANSI 6FA / BS 6755 Part II
- Fire as per API 607/BS 6755 Part II
- Full / Reduced Bore, Trunnion Mounted Design
- Flange drilling as per ANSI BV 16.5, RF Serrated.
- Sealant Injection Systems
- Floating Spring-Loaded Springs
- Temp Range: -46 C to 200 C

ON REQUEST

- Gear /Pneumatic/Electrical Actuator
- NACE as per MR-01-75
- Double Block & Bleed

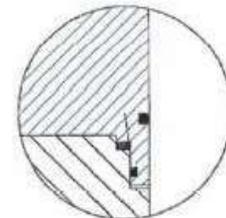
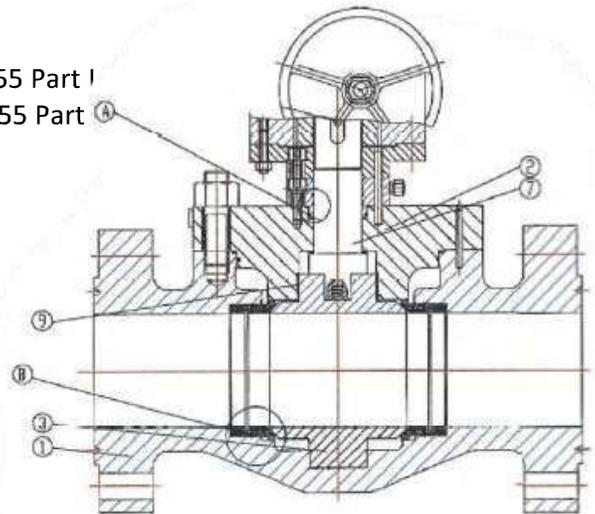
PLEASE CONSULT US

- Metal Seated Valve
- Other material
- Other trim material
- Fully Jacketed Valve
- Other End Connections

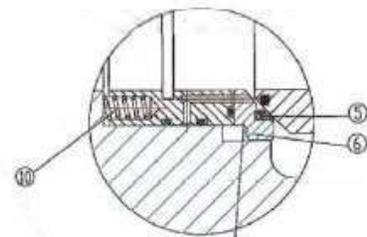
Material of Construction

01. Body	: WCB/CF8/CF8M
02. Cover	: WCB/A105/SS304/SS316
03. Ball	: WCB/A105/A105ENP/CF8/CF8M
04. Seat Assembly	: Assembly by 5&6
05. Seat Insert	: Nylon+5%MoS2
06. Seat Ring	: WCB/A105/A105 ENP/SS304/SS316
07. Stem	: A105/F304/F316
08. & 09. Bearing	: SS316+PTFE+MoS2
10. Seat Spring	: Inconel X-7580

All Fasteners are as per A193 Gr. B7 / A194 Gr. 2H. Other grades on request.

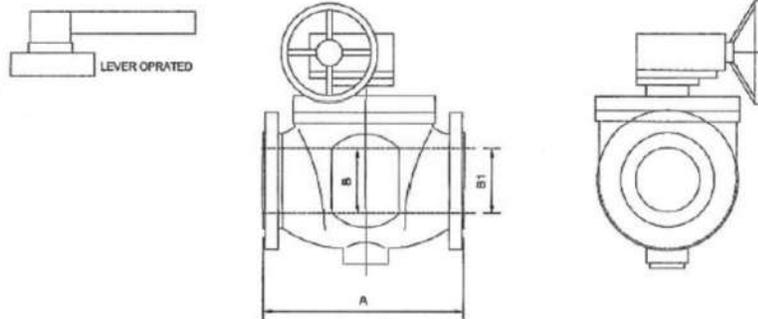


Section A



Section B

VTI BALL VALVE GA TOP ENTRY



ANSI CLASS 150

SIZE INCH	A	B
	RF	
2 X 1 1/2	292	38
2	292	51
3 X 2	356	51
3	356	77
4 X 3	432	77
4	432	102
6 X 4	559	102
6	559	152
8 X 6	660	152
8	660	203
10 X 8	787	203
10	787	254
12 X 10	838	254
14 X 10	889	254
12	838	305
14 X 12	889	305
16 X 12	991	305
14	889	337
16 X 14	991	387
16	991	387
18 X 16	1092	387
20 X 16	1194	387
18	1092	438
20 X 18	1194	438
20	1194	489
24 X 20	1397	489
22	1295	540
24	1397	591
30 X 24	1651	591
26	1448	635
28	1549	686
30	1651	736
36 X 30	2083	736
32	1778	781
34	1930	832
36	2083	876
40	2337	978
42	2437	1022
48	2540	1168

CLASS 300

SIZE INCH	A	B
	RF	
2 X 1 1/2	292	38
2	292	51
3 X 2	356	51
3	356	77
4 X 3	432	77
4	432	102
6 X 4	559	102
6	559	152
8 X 6	660	152
8	660	203
10 X 8	787	203
10	787	254
12 X 10	838	254
14 X 10	889	254
12	838	305
14 X 12	889	305
16 X 12	991	305
14	889	337
16 X 14	991	387
16	991	387
18 X 16	1092	387
20 X 16	1194	387
18	1092	438
20 X 18	1194	438
20	1194	489
24 X 20	1397	489
22	1295	540
24	1397	591
30 X 24	1651	591
26	1448	635
28	1549	686
30	1651	736
36 X 30	2083	736
32	1778	781
34	1930	832
36	2083	876
40	2337	978
42	2437	1022
48	2540	1168

CLASS 600

SIZE INCH	A	B
	RF	
2 X 1 1/2	292	38
2	292	51
3 X 2	356	51
3	356	77
4 X 3	432	77
4	432	102
6 X 4	559	102
6	559	152
8 X 6	660	152
8	660	203
10 X 8	787	203
10	787	254
12 X 10	838	254
14 X 10	889	254
12	838	305
14 X 12	889	305
16 X 12	991	305
14	889	337
16 X 14	991	387
16	991	387
18 X 16	1092	387
20 X 16	1194	387
18	1092	438
20 X 18	1194	438
20	1194	489
24 X 20	1397	489
22	1295	540
24	1397	591
30 X 24	1651	591
26	1448	635
28	1549	686
30	1651	736
36 X 30	2083	736
32	1778	781
34	1930	832
36	2083	876
40	2337	978
42	2437	1022
48	2540	1168

CLASS 900

SIZE INCH	A		B
	RF	RTJ	
2 X 1 1/2	368	371	38
2	368	371	51
3 X 2	381	384	51
3	381	384	77
4 X 3	457	460	77
4	457	460	102
6 X 4	610	613	102
6	610	613	152
8 X 6	737	740	152
8	737	740	203
10 X 8	838	841	203
10	838	841	254
12 X 10	965	968	254
14 X 10	1029	1038	254
12	965	968	305
14 X 12	1029	1038	324
16 X 12	1130	1140	305
14	1029	1038	324
16 X 14	1130	1140	324
16	1130	1140	375
18 X 16	1219	1232	375
20 X 18	1321	1331	375
18	1219	1231	425
20 X 18	1321	1331	425
20	1321	1331	473
24 X 20	1549	1568	473
24	1549	1568	571
30 X 24	1880	1902	571
26	1651	1674	619
28	1753	1775	667
30	1880	1902	714
36 X 30	2286	2315	714
32	2032	2054	762
34	2159	2188	810
36	2286	2315	857

CLASS 1500

SIZE INCH	A			B
	RF	RTJ		
2 X 1 1/2	368	371	38	
2	368	371	51	
3 X 2	470	473	51	
3	470	473	77	
4 X 3	546	549	77	
4	546	549	102	
6 X 4	705	711	102	
6	705	711	146	
8 X 6	832	841	146	
8	832	841	194	
10 X 8	991	1000	194	
10	991	1000	241	
12 X 10	1130	1146	241	
14 X 10	1257	1276	241	
12	1130	1146	289	
14 X 12	1257	1276	317	
16 X 12	1384	1406	289	
14	1257	1276	317	
16 X 14	1384	1406	317	
16	1384	1406	362	
18	1537	1559	407	
20	1664	1686	457	
24	2043	2071	534	

CLASS 1500

SIZE INCH	A			B
	RF	RTJ		
2 X 1 1/2	451	454	38	
2	451	454	44,5	
3 X 2	578	584	44,5	
3	578	584	63,5	
4 X 3	673	683	63,5	
4	673	683	89	
6 X 4	914	927	89	
6	914	927	133	
8 X 6	1022	1038	133	
8	1022	1038	181	
10 X 8	1270	1292	181	
10	1270	1292	226	
12 X 10	1422	1445	226	
12	1422	1445	267	

VTI SCHEMATIC VIEW PNEUMATIC CYLINDER OPERATED BALL VALVE

