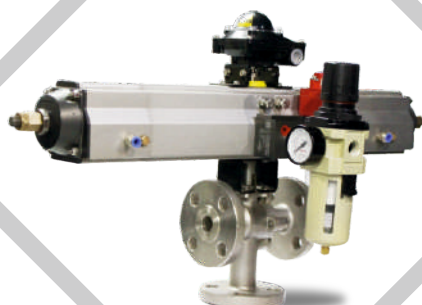
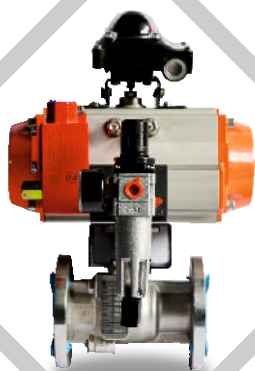




- High Performance Three Piece Ball Pieces
 - Ball Valves in Fire Safe Execution
 - High Performances Flange Ball Valves



GEMINI VALVES AND PUMPS PVT LTD

(End to end solution in Automation and Process Industries)

We Serve

Chemical Industries , Pharmaceutical Industries , Oil and Gas Sector , Sugar Factories , Water and Distillaries

Chemical Industries



Pharmaceutical Industries



Oil and Gas Sector



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Self Adjusting Stem Seal Automatically Adjust Seal To Compensate For Wear Temperature, And Pressure Fluctuations
- Blow-out Proof Stem
- Full Port Constructions Minimizes Pressure Drop Across Pipeline
- Anti-static Device
- Three-piece Swing Out Design For In-line Maintenance
- Iso 5211 Mounting Dimensions For Easy Automations
- Double Body Seal Feature To Suitable For High Pressure.
- Fire Safe In Compliance With Api 607
- Air Cushioned Handle Sleeve For Comfortable Manual Operation.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB, A105, CF3, F304, F316, CN7M.

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE, S/S Filled PTFE, Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

Face to Face Dimensions : Manufacturers Standard

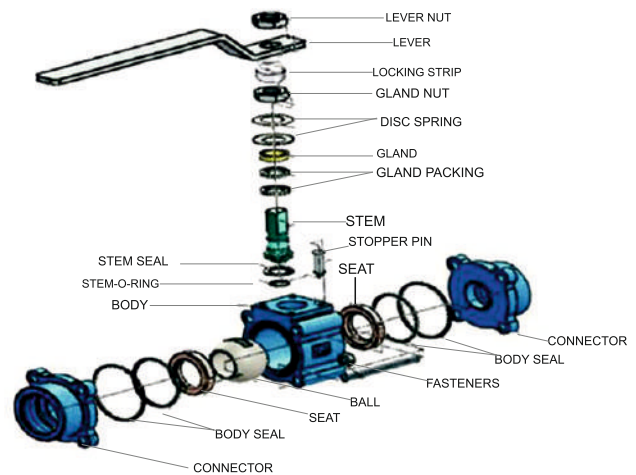
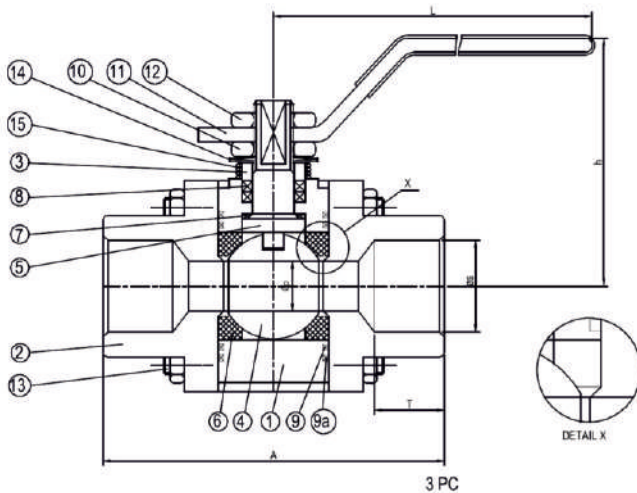
Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

Butt Weld Dimensions : ANSI B 16.25

GENERAL SPECIFICATION -

- Size Available : 1/2" to 2" (DN 15 TO DN 50)
- Temperature Rating : -60°F to 450°F.
Ends: Screwed/Socket/Butt Weld
- Pressure Rating : # 400 & 600-(I.C. Casting),
Port : Full / Reduce
- Pressure Rating : #800 –(Forged Valve)

Sr	Description	Material
01	BODY	A105/WCB/CF8/CF8M
02	END PIPE	A105/WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/O-RING/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304
14	BELLEVILLE SPRING	SPRING STEEL
15	ANTISTATIC SPRING	SS304



SIZE	Dimensions Data in mm						
	A	H	L	ØP		ØS	T
				RP	FB		
15	65	54	145	8	11	21.8	13
20	76	54	145	11	17.5	27.4	10
25	86	92	180	17.5	23	34.1	13
32	103	96	180	23	30	42.7	13
40	113	117	195	30	37	49	16
50	123	122	195	37	49	61	13



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Investment Cast Body (investment Casting) construction
- Blow -out Proof Stem
- Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Fire Safe In Compliance With Api 607
- Triple Stem Sealing Above 2" Size
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB & SPECIAL ALLOYS

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE, S/S Filled PTFE, Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) / API 6D

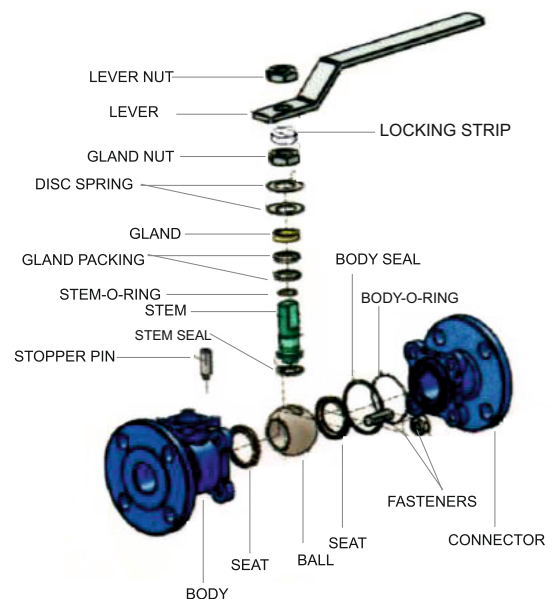
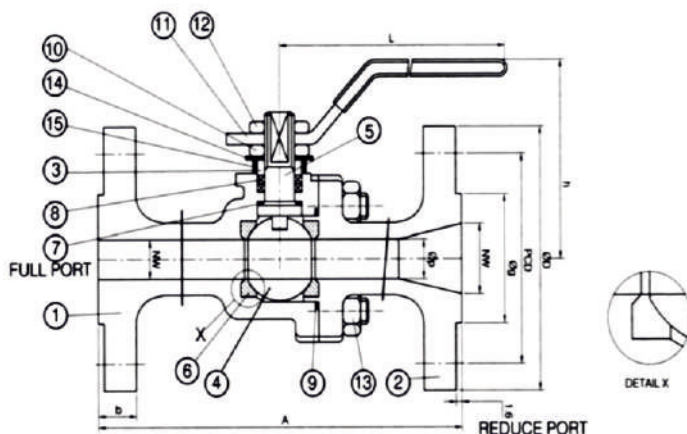
Face to Face Dimensions : ANIS B16.10/API6D

Inspection & Testing : ISO EN 12266 -PART I (BS6755-1)

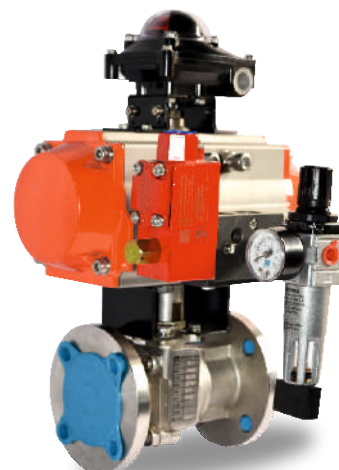
GENERAL SPECIFICATION -

- Size Available : 1/2" to 6" (DN 15 TO Dn150)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 150 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	SIDE PIECE	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304
14	BELLEVILLE SPRING	SPRING STEEL
15	ANTISTATIC SPRING	SS304



SIZE	Dimensions Data in mm										NO OF HOLE
	A	øP	NW	H	L	øD	b	øg	PCD	ø HOLE	
15	108	8	11	55	145	90	10	34.9	60.3	16	4
20	117	11	17	60	145	100	10.9	42.9	69.9	16	4
25	127	17	23	90	180	110	11.6	50.8	79.4	16	4
32	140	23	30	95	180	115	13.2	63.5	88.9	16	4
40	165	30	37	116	195	125	14.7	73	98.4	16	4
50	178	37	49	122	195	150	16.3	92.1	120.7	19	4
65	190	49	62	160	350	180	17.9	104.8	139.7	19	4
80	203	62	74	160	350	190	19.5	127	152.4	19	4
100	229	74	98	160	500	230	24.3	157.2	190.5	19	8
150	267	98	148	185	500	280	25.9	215.9	241.3	22.3	8



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Cast Body Construction
- Blow -out Proof Stem
- Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Fire Safe In Compliance With Api 607
- Triple Stem Sealing Above 2" Size
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB & SPECIAL ALLOYS

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE, S/S Filled PTFE, Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

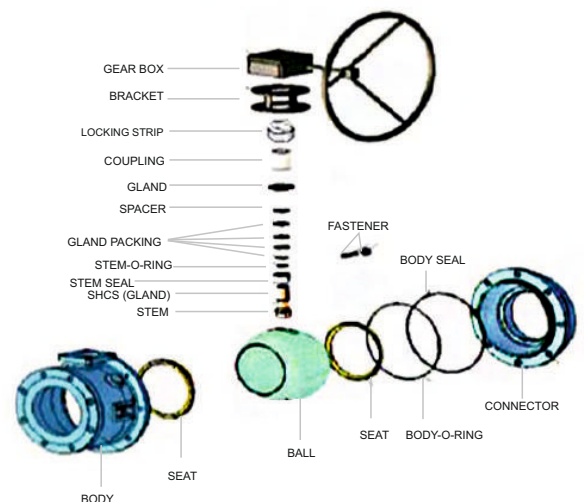
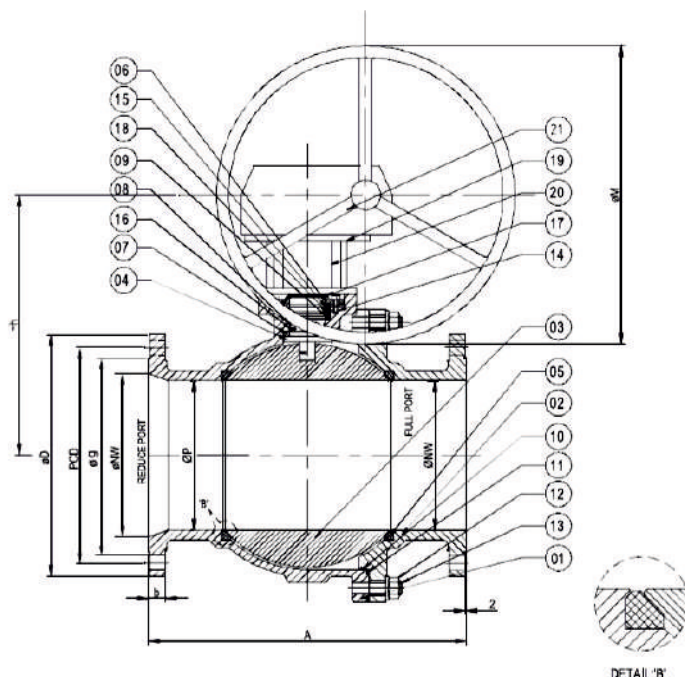
Face to Face Dimensions : ANIS B16.10/API6D

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

GENERAL SPECIFICATION -

- Size Available : 6" to 12" (DN 150 TO Dn300)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 150 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	END CONNECTOR	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	STEM SEAL	GFT
08	STEM O-RING	VITON/EPDM/NITRILE
09	GLAND PACKING	PTFE/GRAFOIL
10	BODY O-RING	VITON/EPDM/NITRILE
11	BODY GASKET	GRAPHITE /PTFE
12	BODY STUD/NUT	B7.GR 2H & B8 GR.8
13	SHCS (GLAND)	HTS 12.9
14	STEM BEARING	DELIN
15	ANTISTATIC DEVICE	SS304
16	CIRCLIP	STD.
17	SPACER	SS304
18	BRACKET	MS POWDER COATED
19	COUPLING	MS
20	GEAR BOX	STD.



SIZE	Dimensions Data in mm										
										Ø HOLE	NO OF HOLE
	A	ØP	ØNW	H	L	ØD	B b	Ø g	PCD		
150	267	98	148	185	500	280	20.9	215.9	241.3	22.3	8
200	292	148	198	350	450	345	29	269.9	298.5	22.3	8
250	330	198	245	450	500	405	30.6	323.8	362	25.4	12
300	356	245	295	500	500	485	32.2	381	431.8	25.4	12



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Cast Body Construction
- Blow -out Proof Stem
- Internal Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Fire Safe In Compliance With Api 607
- Triple Stem Sealing Above 2" Size
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M,CF8,CF3M,WCB &
SPECIAL ALLOYS

Seats & Seals: PTFE , RPTFE , Carbon Filled PTFE ,
S/S Filled PTFE , Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

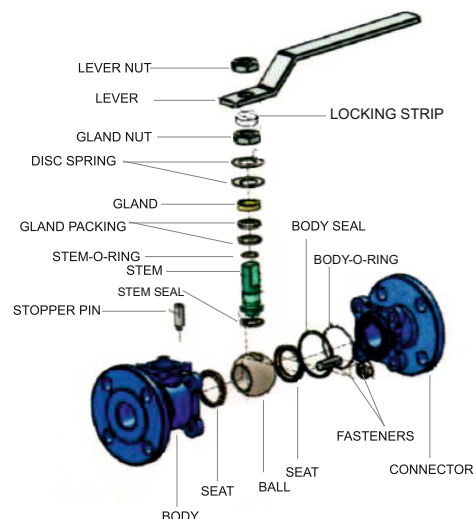
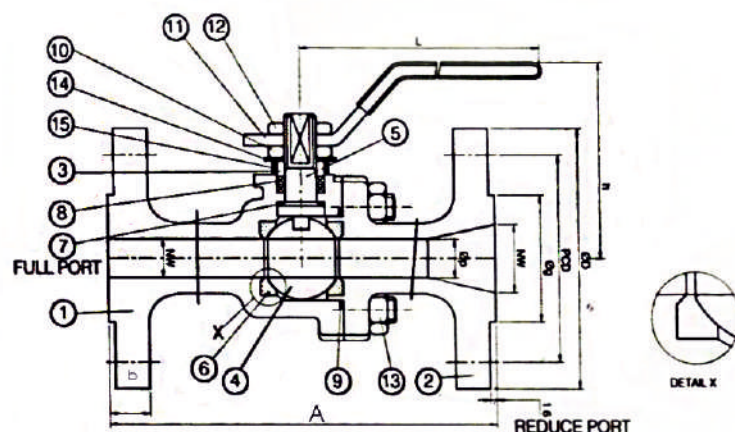
Face to Face Dimensions : ANIS B16.10/API6D

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

GENERAL SPECIFICATION -

- Size Available : 1/2" to 6" (DN 15 TO DN150)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 300 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	SIDE PIECE	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304
14	BELLEVILLE SPRING	SPRING STEEL
15	ANTISTATIC SPRING	SS304



SIZE	Dimensions Data in mnr										
	A	Ø P	NW	H	L	Ø D	b	Ø g	PCD	Ø HOLE	NO OF HOLE
15	140	8	11	60	145	95	14.7	34.9	66.7	16	4
20	152	11	17	95	180	115	16.3	42.9	82.6	19	4
25	165	17	23	95	180	125	17.9	50.8	88.9	19	4
32	178	23	30	116	195	135	19.5	63.5	98.4	19	4
40	190	30	37	116	195	155	21.1	73	114.3	22.3	4
50	216	37	49	160	350	165	22.7	92.1	127	19	8
65	241	49	62	160	350	190	25.9	104.8	149.2	22.3	8
80	282	65	76	160	350	210	29	127	168.3	22.3	8
100	305	76	98	178	350	255	32.2	157.2	200	22.3	8
150	403	98	148	400	500	320	37	215.9	269.9	22.3	12



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Cast Body Construction
- Blow -out Proof Stem
- Internal Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Fire Safe In Compliance With Api 607
- Triple Stem Sealing Above 2" Size
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB &
SPECIAL ALLOYS

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE,
S/S Filled PTFE, Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

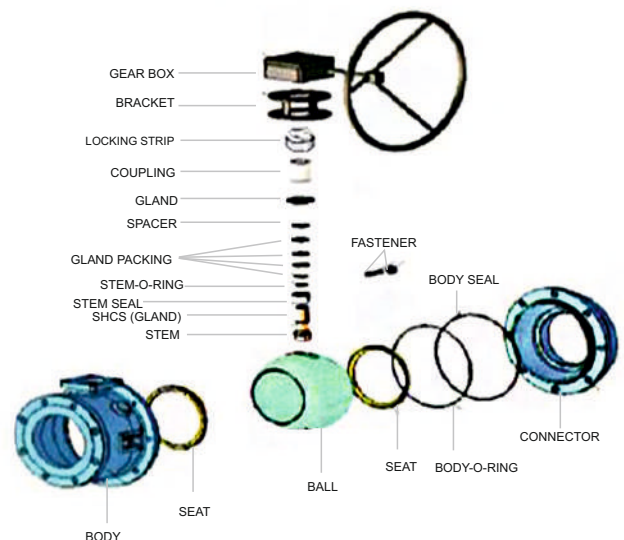
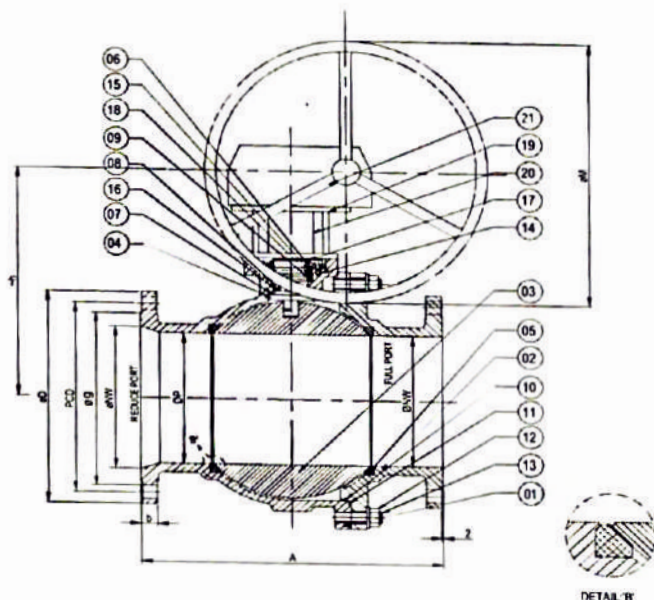
Face to Face Dimensions : ANIS B16.10/API6D

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

GENERAL SPECIFICATION -

- Size Available : 6" to 12" (DN 150 TO Dn300)
- Temperature Rating : -60 °F to 450 °F
- Pressure Rating : # 300 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	END CONNECTOR	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	STEM SEAL	GFT
08	STEM O-RING	VITON/EPDM/NITRILE
09	GLAND PACKING	PTFE/GRAFOIL
10	BODY O-RING	VITON/EPDM/NITRILE
11	BODY GASKET	GRAPHITE /PTFE
12	BODY STUD/NUT	B7.GR 2H & B8 GR.8
13	SHCS (GLAND)	HTS 12.9
14	STEM BEARING	DELTRIN
15	ANTISTATIC DEVICE	SS304
16	CIRCLIP	STD.
17	SPACER	SS304
18	BRACKET	MS POWDER COATED
19	COUPLING	MS
20	GEAR BOX	STD.



SIZE	Dimensions Data in mm										Ø HOLE	NO OF HOLE
	A	ØP	ØNW	H	L	ØD	b	Øg	PCD			
150	419	98	148	400	450	320	37	215.9	269.9	22.3	12	
200	457	148	198	450	500	380	41.7	269.9	330.2	25.4	12	
250	568	198	245	480	500	445	48.1	323.8	387.4	28.6	16	
300	648	245	295	550	500	520	51.3	381	450.8	31.8	16	

PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Blow -out Proof Stem
- Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Valve Port In "1" Port Type
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB & SPECIAL ALLOYS

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

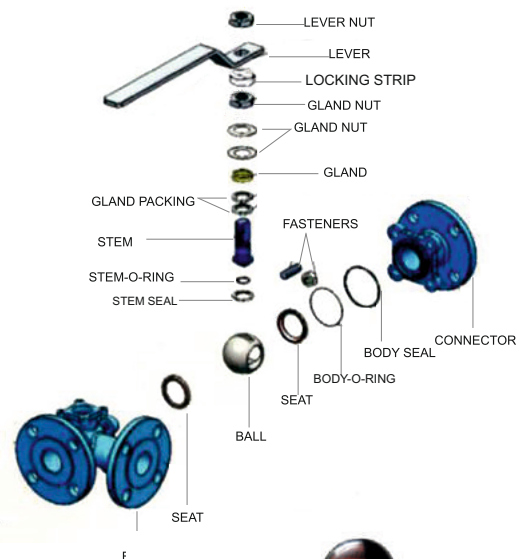
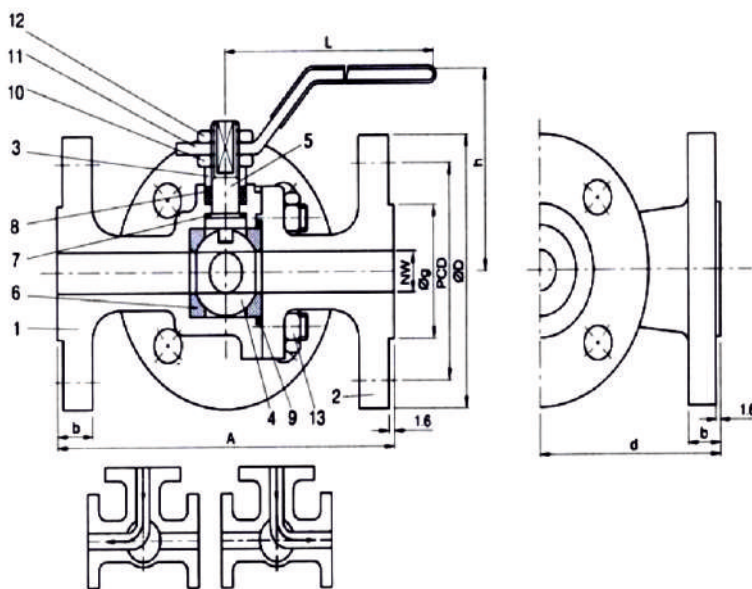
Face to Face Dimensions : ANIS B16.10/manufacturers Standard

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

GENERAL SPECIFICATION -

- Size Available : 1/2" to 6" (DN 15 TO Dn150)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 150 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	SIDE PIECE	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304



SIZE	Dimensions Data in mm											
	A	ØP	NW	H	L	ØD	b	d	Øg	PCD	Ø HOLE	NO OF HOLE
20	117	11	17	60	145	100	10.9	75	42.9	69.9	16	4
25	127	17	23	90	180	110	11.6	85	50.8	79.4	16	4
40	165	30	37	116	195	125	14.7	98	73	98.4	16	4
50	178	65	76	122	195	150	16.3	108	92.1	120.7	19	4
65	190	49	62	160	350	180	17.9	126	104.8	139.7	19	4
80	203	62	74	160	350	190	19.5	134	127	152.4	19	4
100	229	74	98	160	500	230	24.3	156	157.2	190.5	19	8
150	267	98	148	185	500	280	25.9	210	215.9	241.3	22.3	8



Series 40B 3 Way Flanged End #300 L-port Bottom Side Ball Valves

PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Blow -out Proof Stem
- Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Valve Port In ``I'' Port Bottom Type
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M,CF8,CF3M,WCB &
SPECIAL ALLOYS

Seats & Seals: PTFE , RPTFE , Carbon Filled PTFE

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

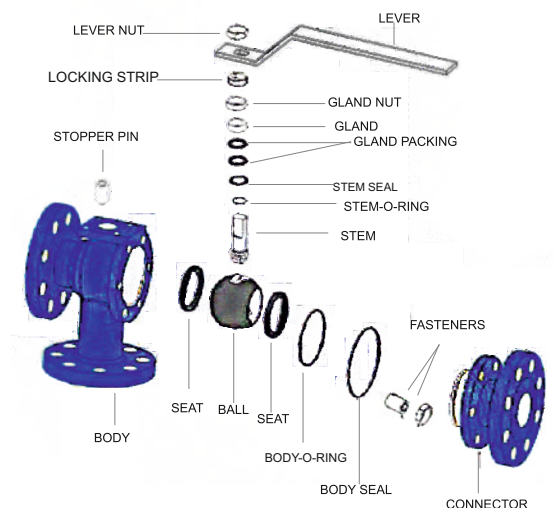
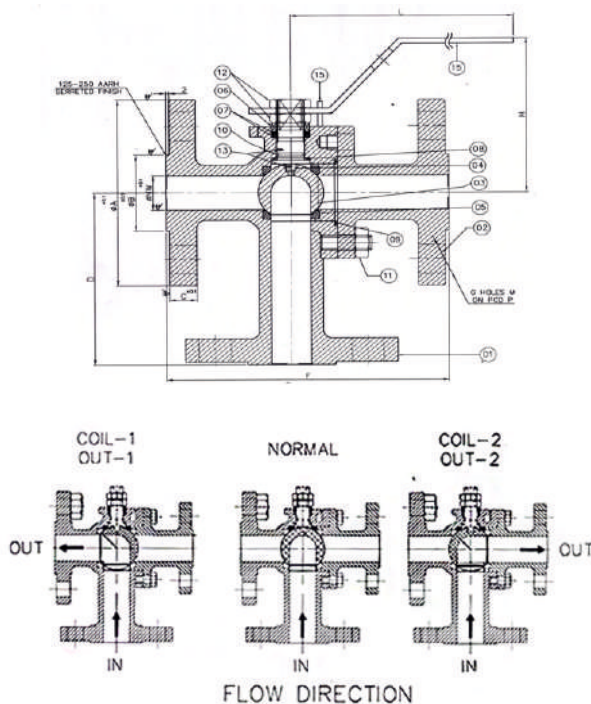
Face to Face Dimensions : ANIS B16.10/manufacturers
Standard

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

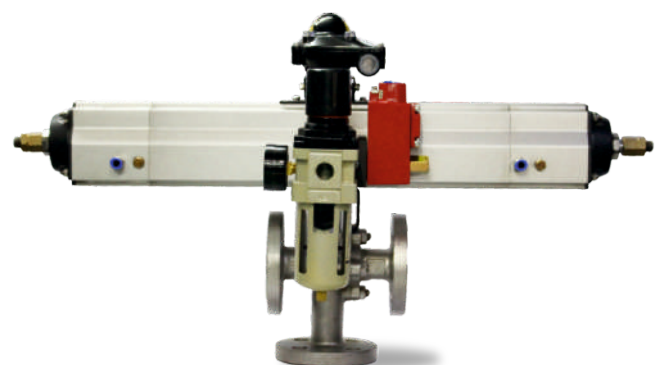
GENERAL SPECIFICATION -

- Size Available : 1" to 6" (DN 25 TO Dn150)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 300 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	SIDE PIECE	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304



SIZE	Dimensions Data in mm										
	F	NW	H	L	ØA	C	ØB	P	ØM	G	D
25	165	23	95	180	125	17.9	50.8	88.9	19	4	115
40	190	37	116	195	155	21.1	73	114.3	22.3	4	130
50	216	49	160	350	165	22.7	92.1	127	19	8	150
65	241	65	160	350	190	25.9	104.8	149.2	22.3	8	165
80	282	76	160	350	210	29	127	168.3	22.3	8	175
100	305	98	178	350	255	32.2	157.2	200	22.3	8	200
150	403	148	400	500	320	37	215.9	269.9	22.3	12	230



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Self-adjusting Stem Seal Automatically Adjust Seal To Compensate For Wear Temperature, And Pressure Fluctuations.
- Blow –out Proof Stem
- Body Construction In Investment Cast
- Anti-static Device
- Three-piece Swing Out Design For In-line Maintenance
- Iso 5211 Mounting Dimensions For Easy Automations
- Double Body Seal Feature To Suitable For High Pressure.
- Air Cushioned Handle Sleeve For Comfortable Manual Operation

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M,CF8,CF3M,WCB,A105,
CF3,F304,F316,CN7M

Seats & Seals: PTFE , RPTFE , Carbon Filled PTFE ,
S/S Filled PTFE , Grafoil

CODES & STANDARDS -

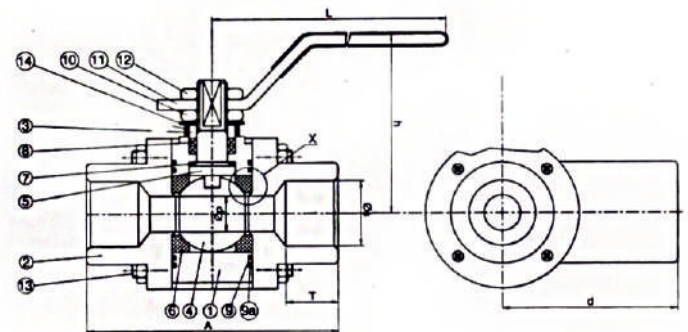
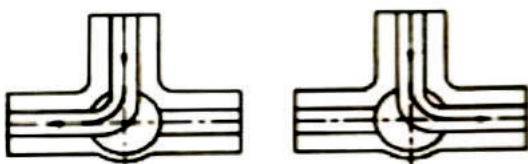
Design & Manufacturing :ISO 17292 (BS5351) /API 6D
Face to Face Dimensions : Manufacturers Standard
Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)
Butt Weld Dimensions : ANSI B 16.25

GENERAL SPECIFICATION -

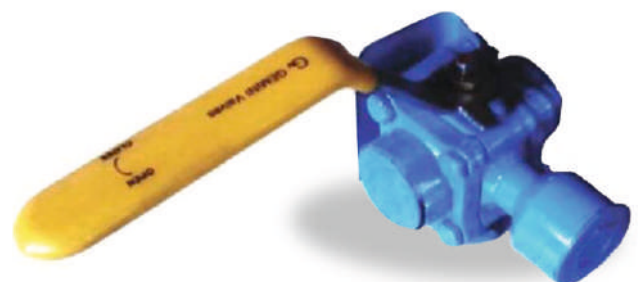
- Size Available : 1/2" to 1 1/2" (DN 15 TO Dn40)
- Temperature Rating : -60°F to 450°F.
- Pressure Rating : # 400 &600-Port : Full

Sr.	Description	Material
01	BODY	A105/WCB/CF8/CF8M
02	END PIPE	A105/WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	PRIMER BODY SEAL & SECONDARY BODY SEAL	PTFE/O-RING/GRAFOIL
10	GLAND NUT	CARBON STEEL
11	LEVER	CARBON STEEL
12	LEVER NUT	CARBON STEEL
13	BODY STUD/NUT	B7/2H OR SS304
14	BELLEVILLE SPRING	SPRING STEEL

Flow Direction



SIZE	Dimensions Data in mm						
	A	h	L	ØP			d
				FB	ØS	T	
15	65	54	145	11	21.8	10	58
20	76	92	180	17.5	27.4	13	68
25	86	96	180	23	34.1	13	78
32	103	117	195	30	42.7	13	85
40	113	122	195	37	49	13	95



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Self-adjusting Stem Seal Automatically Adjust Seal To Compensate For Ware .
Temperature & Pressure Fluctuations
- Body Construction In Investment Cast
- Blow -out Proof Stem
- Anti-static Device
- 3piece Swing Out Design For In Line Maintenance
- Iso 5211 Mounting Dimensions For Easy Automations
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB &
SPECIAL ALLOYS

Seats & Seals: PTFE , RPTFE , Carbon Filled PTFE ,
S/S Filled PTFE , Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

Face to Face Dimensions : Manufactures Standard

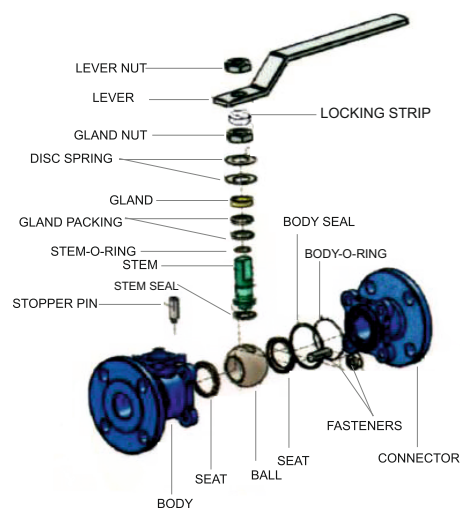
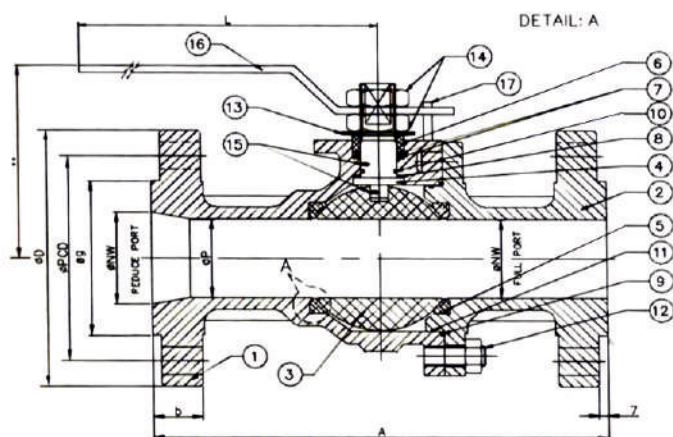
Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

Butt Weld Dimensions : ANIS 16.25

GENERAL SPECIFICATION -

- Size Available : 1/2" to 3" (DN 15 TO Dn80)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 600 Port :Full/Reduce

Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	ADAPTOR	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE/GRAFOIL
08	STEM SEAL	GFT
09	BODY SEAL	PTFE/GRAFOIL
10	STEM O-RING	VITON/EPDM/NITRILE
11	BODY O-RING	VITON/EPDM/NITRILE
12	BODY STUD/NUT	B7/2H OR SS304
13	LEVER NUT & GLAND NUT	CARBON STEEL
14	ANTISTATIC SPRING	SS304
15	LEVER	CARBON STEEL
16	STOPER PIN	CARBON STEEL



SIZE	Dimensions Data in mm										NO OF HOLE
	A	ØP	NW	H	L	ØD	b	Øg	PCD	Ø HOLE	
15	165	8	13	70	145	95	21.3	34.9	66.7	16	4
20	190	13	19	80	145	115	22.9	42.9	82.6	19	4
25	216	19	25	125	180	125	24.5	50.8	88.9	19	4
32	229	30	40	125	195	135	27.7	63.5	98.4	19	4
40	241	65	49	155	200	155	35.6	73	114.3	22.3	4
50	292	76	62	160	350	165	32.4	92.1	127	19	8
65	330	62	74	170	350	190	51.5	104.8	149.2	22.3	8
80	356	74	98	180	400	210	38.8	127	168.3	22.3	8



PRODUCT FEATURES -

- Extra High Cycle Life Provide By Spherical Segment Stem
- Split Body Design Facilitates Inspection And Repair
- Cast Body Construction
- Blow -out Proof Stem
- Anti-static Device
- Iso 5211 Mounting Dimensions For Easy Automations
- Fire Safe In Compliance With Api 607
- Triple Stem Sealing Above 2" Size
- Air Cushioned Handle Sleeve For Comfortable Manual Operation
- Double Body Seal Feature To Suitable For High Pressure.

AVAILABLE MATERIAL OF CONSTRUCTION -

Body and Side piece: CF8M, CF8, CF3M, WCB & SPECIAL ALLOYS

Seats & Seals: PTFE, RPTFE, Carbon Filled PTFE, S/S Filled PTFE, Grafoil

CODES & STANDARDS -

Design & Manufacturing :ISO 17292 (BS5351) /API 6D

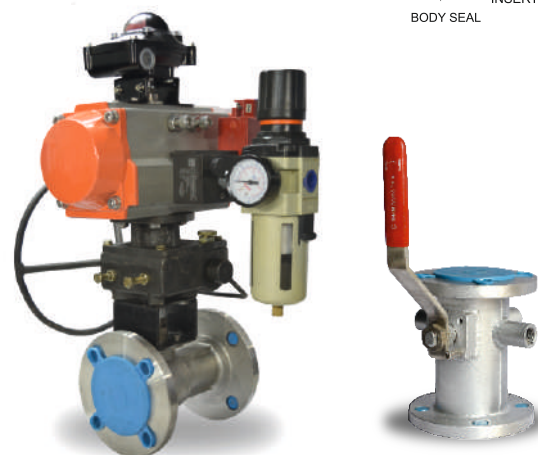
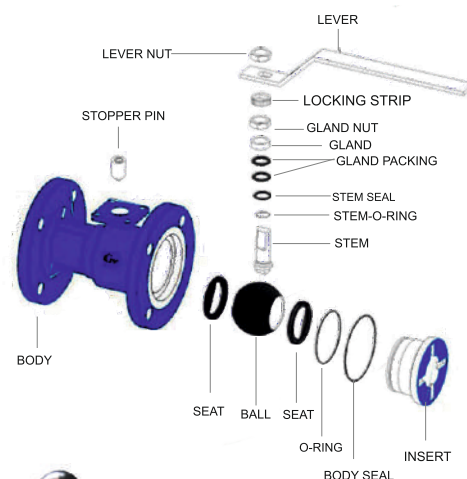
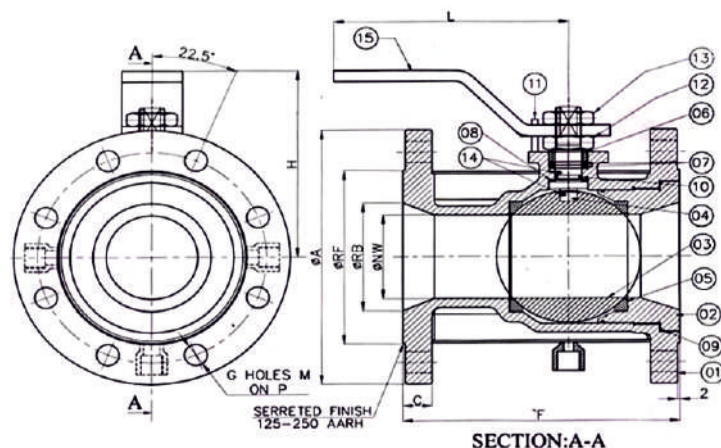
Face to Face Dimensions : ANIS B16.10/API6D

Inspection & Testing : ISO EN 12266 –PART I (BS6755-1)

GENERAL SPECIFICATION -

- Size Available : ¾" to 6" (DN 20 TO Dn150)
- Temperature Rating : -60°F to 450°F
- Pressure Rating : # 150 Port :Full/Reduce

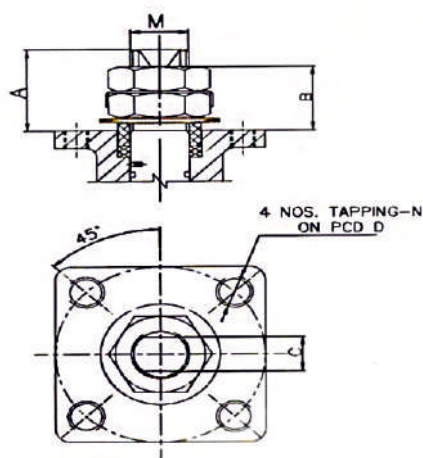
Sr.	Description	Material
01	BODY	WCB/CF8/CF8M
02	INSERT	WCB/CF8/CF8M
03	BALL	304/316
04	STEM	304/316
05	SEAT	PTFE/GFT/CFT
06	GLAND	304/316
07	GLAND PACKING	PTFE
08	STEM SEAL	GFT
09	BODY SEAL	PTFE
10	STEM O-RING	NITRILE
11	STOPER PIN	MS /SS304
12	GLAND NUT	MS/SS304
13	LEVER NUT	MS/SS304
14	ANTISTATIC SPRING	AISI SS304
15	LEVER	MS/SS304



SIZE	Dimensions Data in mm										
	F	H	L	øA	øRF	øRB	øNW	C	G	M	P
1"X3/4"	127	86.5	245	110	50.8	23	19	11.6	4	16	79.4
1 1/2"X1"	165	105	245	125	73	37	23	14.7	4	16	98.4
2"X1 1/2"	178	130	358	150	92.1	49	37	16.3	4	19	120.7
3"X2"	203	136	397	190	127	76	49	19.5	4	19	152.4
4"X3"	229	169	550	230	157.2	98	76	24.3	8	19	190.5
6"X4"	267	230	550	280	216	148	98	26	8	22.3	241.3

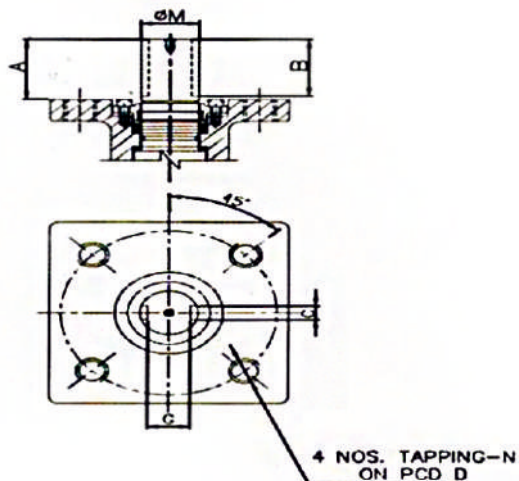
Operating Mounting Details

#150 & #300



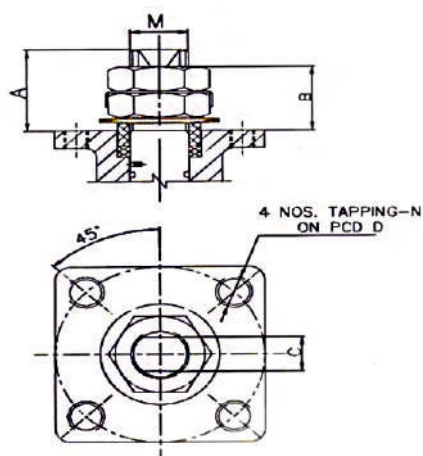
Size	Dimension Data in mm					
	D	TAPPING	C	M	A	B
15	50	M6 X THRO	5	8	13.8	10
20	50	M6 X THRO	8	12	17.5	14.5
25	50	M6 X THRO	10	16	27	19
32	50	M6 X THRO	10	16	27	19
40	50	M6 X THRO	10	16	27	19
50	50	M8 X THRO	14	20	38	27
65	70	M8 X THRO	14	20	40	30
80	70	M10 X THRO	20	28	18	36
100	102	M10 X THRO	24	30	55	44
150	125	M12 X THRO	24	30	35	-

#150 & #300



Size	Dimension Data in mm							
	D	H	TAPPING	C	G	M	A	B
200	140	4	M16 X THRO	12	29.6	40	55	52
250	165	4	M20 X THRO	18	45.6	60	60	58
300	254	8	M16 X THRO	20	56.6	72	80	75

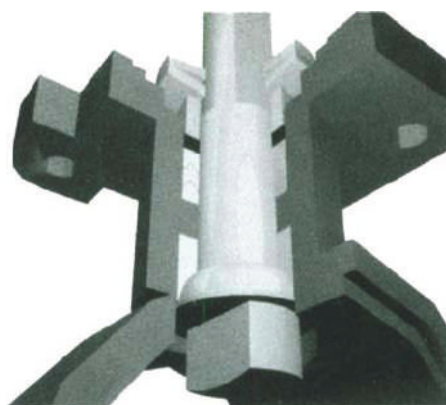
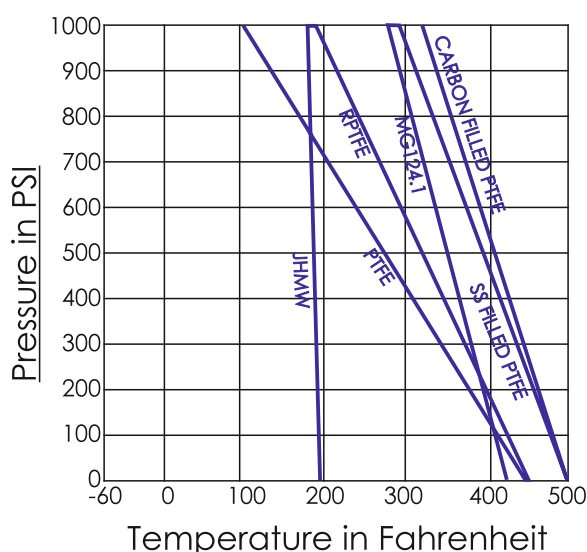
#600



SIZE	Dimension Data in mm					
	D	TAPPING	C	M	A	B
15	36	M4 X THRO	8	12	17.5	14.5
20	50	M6 X THRO	10	16	20.5	15.5
25	50	M6 X THRO	10	16	32	23.5
32	50	M6 X THRO	10	16	27	19
40	70	M8 X THRO	14	20	38	27
50	70	M8 X THRO	14	20	38	27
65	102	M10 X THRO	20	28	48	38
80	102	M10 X THRO	24	30	48	38
100	125	M12X THRO	24	36	70	55

Our high cycle stem design is accomplished by double seating system . The spherical segment ring in conjunction with a seal that fits on the top of the spherical provides the primary seal. Most of the media in the pipeline is contained by this seal . As a precautionary measure the v-ring stem packing provides the secondary sealing . On the top of the stem is a set of belleville washer that automatically adjusts compression of the seal to compensate for wear , pressure or temperature fluctuations.

SEAT RATING CHART



Body Rating To Be Considered In Conjunction With Seat Rating

G _v	Dimensions Data in mm							
	MAXIMUM OPERATING TORQUES FOR BALL VALVE							
SR.NO	SIZE		CLASS 150		CLASS 300		CLASS 600	
	FB	RB	Nm	Lb.iN	Nm	Lb.iN	Nm	Lb.iN
1		½"	4	35	7	61	30	258
2	½"	¾"	5	43	8	69	30	258
3	¾"	1"	7	61	9	78	32	276
4	1"	1 ¼"	10	86	13	112	40	344
5	1 ¼"	1 ½"	15	129	20	224	68	585
6	1 ½"	2"	18	190	26	439	105	903
7	2"	2 ½"	30	301	51	835	140	1204
8	2 ½"	3"	68	585	97	1032	160	1376
9	3"	4"	80	826	120	1824	325	2795
10	4"	6"	156	1342	212	4128	530	4558
11	6"	8"	362	3114	480	7655		
12	8"	10"	800	6880	890	17286		
13	10"	12"	1180	10148	2010			
14	12"	14"	1890	16254	2990	25714		



Fire Safe Approval As Per API 607


DNV Id. No.:
Ref:- PUN/13/NT/ 468 Rev. 1.
Date:- 20-01-2014

DET NORSKE VERITAS
FIRE SAFE TEST CERTIFICATE

Gemini Valves & Pumps Pvt. Ltd.
 W-261, J-Block, Near Indrayani Nagar,
 M.I. D. C Bhosari, Pune - 411 026

Witnessed by surveyor of DET NORSKE VERITAS on **21st SEP 2013**, the fire safe test of **2" #150 Flanged End Type, 2PC FB Floating Ball Valve**.

FIRE TEST WITNESS REPORT

Description of valve tested :
 Manufacturing standard : API 608
 Design : API 6D / BS EN ISO 17292:2004
 Type : Double Flanged End, (2PC)
 Size /Class : DN 50 150 Class 150
 Valve Sr. No. : GB 761
 Heat No.(Body) : 021R
 Heat No. (Ball) : 306K
 Drawing No. : GA. X.050.2.A.01.F.X.00.

Material of construction
 1) Body : ASTM A 216 WCB
 2) Stem : ASTM A 276 SS 316
 3) Seat : PTFE
 4) Gland- Packing : GRAPHITE
 5) Tail Piece : ASTM A 216 WCB
 6) Fasteners (Stem Nut) : ASTM A 193 Gr. B7, ASTM A 194 Gr 2H
 7) Ball : ASTM A 351 CF 8M

Fire safe testing is in accordance to API 607 - 6th Edition 2010 / ISO 10497 and found the test results conforming to the required specifications. For further details please refer manufacturer's

Range Qualified:
 This valve qualifies following sizes and class ratings as per API 607 - 6th Edition 2010/ISO 10497

Tested valve :- DN 50, CLASS 150	
Size :	DN 50 & Below 65, 80, 100 NB
Class :	#150, #300


 NAREESH TURERAQ
 Surveyor of DET NORSKE VERITAS

If any person suffers loss or damage which is attributable to any error in the report or certificate of DET NORSKE VERITAS, then DET NORSKE VERITAS shall not be responsible for such loss or damage. The report or certificate of DET NORSKE VERITAS is issued on the basis of the information provided by the client and the client is responsible for the accuracy of the information provided. DET NORSKE VERITAS is not responsible for the accuracy of the information provided by the client.

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 Form No. 40-01a Issue January 08

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DNV Id. No.:
Ref:- PUN/13/NT/ 468 Rev. 1
Date:- 20-01-2014

DET NORSKE VERITAS
FIRE SAFE TEST CERTIFICATE

Gemini Valves & Pumps Pvt. Ltd.
 W-261, J-Block, Near Indrayani Nagar,
 M.I. D. C Bhosari, Pune - 411 026

Witnessed by surveyor of DET NORSKE VERITAS on **16th SEP 2013**, the fire safe test of **4" #150 NPS Flanged End Type, 2PC FB Floating Ball Valve**.

FIRE TEST WITNESS REPORT

Description of valve tested :
 Manufacturing standard : API 608
 Design : API 6D / BS EN ISO 17292:2004
 Type : Double Flanged End, (2PC)
 Size /Class : DN 100 Class 150
 Valve Sr. No. : GB 906
 Heat No.(Body) : L-12-0893
 Heat No. (Ball) : L-2966
 Drawing No. : GA. X.100.2.A.01.F.X.00.

Material of construction
 1) Body : ASTM A 216 WCB
 2) Stem : ASTM A 276 SS 316
 3) Seat : PTFE
 4) Gland- Packing : GRAPHITE
 5) Tail Piece : ASTM A 216 WCB
 6) Fasteners (Stem Nut) : ASTM A 193 Gr. B7, ASTM A 194 Gr 2H
 7) Ball : ASTM A 351 CF 8M

Fire safe testing is in accordance to API 607 - 6th Edition 2010 / ISO 10497 and found the test results conforming to the required specifications. For further details please refer manufacturer's

Range Qualified:
 This valve qualifies following sizes and class ratings as per API 607 - 6th Edition 2010/ISO 10497

Tested valve :- DN 100, CLASS 150	
Size :	DN 100, 125, 150 & DN 200
Class :	#150, #300


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