



# **Anand Teknow Aids Engineering India Limited**



**Anand Teknow Valve**

## INTRODUCTION

THE ANAND TEKNOV GROUP OF COMPANIES is in various types of business since 1984. The group started with the activities of trading & distribution of industrial products and phased into manufacturing.

Along with manufacture Ball valves group companies are in the manufacture of products related to the requirements of Petroleum and Power sectors namely Galvanised Steel Gratings and related products. Our present turnover of manufacturing group is to the tune of INR 1500 million.

## CORE STRENGTH & VISION

We are proud to have dedicated professional teams for designing, manufacturing and marketing our products.

Our vision is to be one of the leading manufacturers of high performance valves & systems and to be the best option for our customers.

## DESIGNS & FEATURES

ANAND TEKNOV Ball valves are full bore valves with two and three piece construction. Connectors are with BSP, NPT, SOCKET WELD, FLANGED END type. These valves are manufactured out of Cast steel, Stainless Steel, duplex or made to suitable specific requirement of the customers.

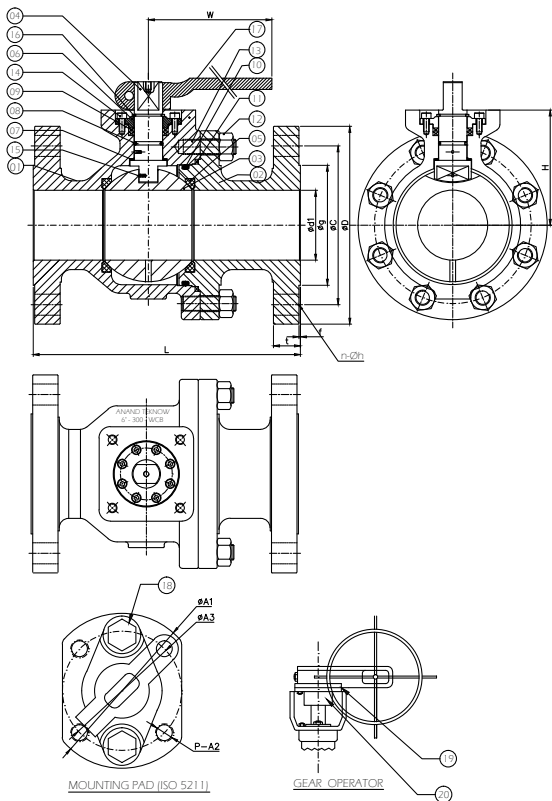
Standards referred for design are STRICTLY as per API 6D and Fire safe.

Floating ball Valves are available in the size 2" to 8" and Trunion mounted in the size from 4" to 16" in the classes between the range of 150 to 1500.

SEATS for the above are of the types SOFT & METAL SEATED in commensurate with temperature and pressure requirements.

Our valves are designed to reduced torque which is easy to operate.

We ensure that the ball valves are corrosion resistant and hence ensures the longer maintenance free, leak proof life.



## MATERIAL OF CONSTRUCTION

<b>BODY / END CONNECTOR</b>	: A351 CF8M / A351 CF3M / A351 CF3 / ASTM A216 WCB / A 352LCB / A352 LCC / A217 CA15 / DUPLEX SS
<b>BALL</b>	: A216 WCB / A351 CF8 / A351 CF8M / A351 CF3M / A182 A105/ A217 CA15 / DUPLEX SS
<b>STEM</b>	: A479 SS304 / A479 SS316 / A479 SS316L / A479 SS410 / A182 F51 / A182 F316 / A182 F304 / A182 F316L
<b>SEAT</b>	: A182 A105 + ENP / A182 F316 / A182 F6A / DUPLEX SS
<b>SEAT INSERT</b>	: DEVLON / NYLON (PA12) / DELRIN / RPTFE / PEEK / PCTFE / CGFT / VITON
<b>STUD / BOLT</b>	: ASTM - A193 B7 / A 193B7M / A193 B8M / B8 / ASTM A 320 L7 , L7M
<b>NUT</b>	: A194 2H / A194 2HM / A194 7M / A194 8M

## CODES & STANDARDS

<b>Design Standards</b>	: API 6D / ASME 16.34 / EN ISO 17292 (BS 55351)
<b>Face to Face</b>	: API 6D / ASME 16.10 / EN ISO 17292
<b>Inspection &amp; Testing</b>	: API 598 / EN 12266-1
<b>Pressure Temperature</b>	: ASME B 16.34
<b>Flange Dimensions</b>	: ASME B 16.5 / MSS-SP - 44 / ASME B16.1
<b>Fire Safe Test</b>	: API 607 / API 6FA / EN 12266 - 2

## PROCESS & MANUFACTURING

The modern production facilities are equipped with CNC / VMC / HMC machines, Special Purpose Machines (SPMs), automatic welding machines and testing equipment for total control of all operations. The laboratory is equipped with latest testing instruments including facilities for PMI and NDE. Gauge calibration facility ensures that correct measuring instruments are always used in production for faster deliveries and customer service. The manufacturing range of ANAND TEKNOV VALVES includes process ball valves of different materials and sizes from 2 inches to 16 inches. We also undertake atomization of systems pneumatic actuators and valve automation as per customer specifications.

## QUALITY & TESTING

As a philosophy, quality and reliability are built into every valve through a meticulously implemented quality assurance program. ANAND TEKNOV is in the process of implementing the requirement of API Spec Q1 in line with ISO : TS 29001 : 2007 for manufacturing monogrammed products under API 6D / 6A license.

ANAND TEKNOV exercises stringent selection criteria for procurement of steel castings from foundries. The foundry approval is given only after rigorous inspection of their facilities, systems, methodizing, sample casting and pilot batch. NDE techniques such as RT and MP are extensively used for evaluation of the soundness of the casting. All valves (100%) are subjected to pressure testing after assembly, ensuring reliability for valves performing under extreme conditions. The test pressure used often are exceeds standards.

SR. NO.	PART NAME	MATERIAL	QTY.
01	BODY	ASTM 216 GRADE WCB	1
02	TAIL PIECE	ASTM 216 GRADE WCB	1
03	BALL	ASTM A351 GR CF8M	1
04	STEM	ASTM A479 GR 316	1
05	SEAT	V-PTFE/GFT	2
06	GLAND	ASTM A479 GR 316	1
07	STEM THRUST WASHER	GFT	1
08	STEM O-RING	VITON	1
09	STEM PACKING	GRAPHITE	2
10	BODY O-RING	VITON	1
11	BODY GASKET	GRAPHITE	1
12	HEX NUT	ASTM A194 GR 2H	8
13	STUD	ASTM A193 GR B7	8
14	SHCS (gland)	HTS 12.9	8
15	ANITISTATIC DEVICE	SPRING STEEL	2
16	CIRCLIP	STANDARD	1
17	LEVER	ASTM A216 WCB	1
18	GLAND BOLT	ASTM A193 B8	1
19	YOKE	A216 (G) WCB	1
20	CONNECTOR	A105 Zn	1

## CLASS 150

VALVE SIZE		ø B	A			H	H2	ø F	ISO TOP			ø G	J	KEY SIZE	ø D	FLANGE DRILLING			WEIGHT
INCH	MM		RF	RTJ	BWE				PCD	HOLE ø	NOS					BC	HOLE ø	NOS	Kg
3	76	76	203.20	215.90	281.94	139.95	74.93	124.96	101.85	11.93	4	19.98	29.97	5.84 / 5.84	190.50	152.40	19.05	4	19.96
4	102	102	228.60	241.80	304.80	189.99	119.88	149.86	124.96	13.97	4	27.99	39.88	7.87 / 6.85	228.60	190.50	19.05	8	44.91
6	152	152	393.95	406.90	457.20	199.89	139.95	210.05	165.10	22.09	4	39.97	59.94	11.93 / 7.87	279.40	241.30	22.22	8	69.85
8	203	203	457.20	469.90	520.70	239.77	189.99	210.05	165.10	22.09	4	45	64.77	13.97 / 8.89	342.90	298.45	22.22	8	169.60
10	254	254	532.89	546.10	558.80	289.81	219.96	210.05	165.10	22.09	4	45	64.77	13.97 / 8.90	406.40	361.95	25.40	12	254.50
12	305	305	609.60	622.80	635.00	330.2	259.84	299.97	254.00	17.78	8	45	64.77	13.97 / 8.91	482.60	431.80	25.40	12	334.30

## CLASS 300

VALVE SIZE		ø B	A			H	H2	ø F	ISO TOP			ø G	J	KEY SIZE	ø D	FLANGE DRILLING			WEIGHT
INCH	MM		RF	RTJ	BWE				PCD	HOLE ø	NOS					BC	HOLE ø	NOS	Kg
3	76	76.20	281.94	297.94	281.94	139.95	74.93	124.97	101.85	11.94	4	24.99	34.80	7.87/6.85	165.10	168.15	22.23	8	22.23
4	102	101.60	304.80	320.80	304.80	189.99	119.89	149.86	124.97	13.97	4	27.99	39.88	7.87/6.86	209.55	200.15	22.23	8	54.88
6	152	151.89	402.84	419.10	457.20	199.90	139.70	210.06	165.10	22.10	4	39.98	60.45	11.938/7.87	254.00	269.75	22.23	12	99.79
8	203	202.95	501.90	518.16	520.70	239.78	189.99	210.06	165.10	22.10	4	45.01	64.77	13.97/8.89	317.50	330.20	25.40	12	184.61
10	254	254.00	567.94	584.20	558.80	289.81	219.96	210.06	165.10	22.10	4	45.01	64.77	13.97/8.89	381.00	387.35	28.58	16	294.38
12	305	304.80	647.95	663.96	635.00	330.20	259.84	299.97	254.00	17.78	8	45.01	64.77	13.97/8.89	444.50	450.85	31.75	16	439.08

## CLASS 600

VALVE SIZE		ø B	A			H	H2	ø F	ISO TOP			ø G	J	KEY SIZE	ø D	FLANGE DRILLING			WEIGHT
INCH	MM		RF	RTJ	BWE				PCD	HOLE ø	NOS					BC	HOLE ø	NOS	Kg
2	51	50.80	292.10	294.89	292.10	119.89	87.88	124.97	69.85	11.94	4	19.99	29.97	5.84 / 5.84	165.10	127.00	19.05	8	21.77
3	76	76.20	355.60	358.90	355.60	139.95	95.00	124.97	101.85	11.94	4	24.99	34.80	7.87 / 6.85	209.55	168.15	22.23	8	44.91
4	102	101.60	431.80	434.85	431.80	189.99	139.95	149.86	124.97	13.97	4	39.98	59.94	11.938/7.87	273.05	215.90	25.40	8	88.00
6	152	151.89	558.80	561.85	558.80	199.90	154.94	210.06	165.10	22.10	4	45.01	64.77	13.97 / 8.89	355.60	292.10	28.45	12	132.90
8	203	202.95	660.40	662.94	660.40	239.78	189.99	210.06	165.10	22.10	4	45.01	64.77	13.97 / 8.89	419.10	349.25	31.75	12	303.45
10	254	254.00	787.40	789.94	787.40	289.81	219.96	210.06	165.10	22.10	4	54.99	80.01	16.00/09.90	508.00	431.80	35.05	16	603.73
12	305	304.80	838.20	840.99	838.20	330.20	259.84	299.97	254.00	17.78	8	54.99	80.01	16.00/09.90	558.80	488.95	35.05	20	982.93

## CLASS 900

VALVE SIZE		ø B	A			H	H2	ø F	ISO TOP			ø G	J	KEY SIZE	ø D	FLANGE DRILLING			WEIGHT
INCH	MM		RF	RTJ	BWE				PCD	HOLE ø	NOS					BC	HOLE ø	NOS	Kg
2	51	50.80	367.79	370.84	367.79	119.89	87.88	124.97	69.85	11.94	4	19.99	29.97	5.84 / 5.84	215.90	165.10	25.40	.	36.29
3	76	76.20	381.00	383.79	381.00	149.86	119.89	124.97	101.85	11.94	4	30.00	44.96	7.87 / 6.85	241.30	190.50	25.40	8	64.86
4	102	101.60	457.20	459.99	457.20	199.90	149.86	149.86	124.97	13.97	4	45.01	64.77	13.97 / 8.89	292.10	234.95	31.75	8	114.76
6	152	151.89	609.60	612.90	609.60	214.88	179.83	210.06	165.10	22.10	4	45.01	64.77	13.97 / 8.89	381.00	317.50	31.75	12	169.64
8	203	202.95	736.60	739.90	736.60	254.00	214.88	210.06	165.10	22.10	4	54.99	80.01	16.00/09.90	469.90	393.70	38.10	12	347.00
10	254	254.00	838.20	840.99	838.20	299.97	249.94	299.97	254.00	17.78	8	54.99	80.01	16.00/09.90	546.10	469.90	38.10	16	783.35
12	305	304.80	965.20	967.99	965.20	349.76	294.89	299.97	254.00	17.78	8	74.98	109.98	19.81/11.93	609.60	533.40	38.10	20	987.92

## CLASS 1500

VALVE SIZE		ø B	A			H	H2	ø F	ISO TOP			ø G	J	KEY SIZE	ø D	FLANGE DRILLING			WEIGHT
INCH	MM		RF	RTJ	BWE				PCD	HOLE ø	NOS					BC	HOLE ø	NOS	Kg
3	76	76.20	469.90	472.95	469.90	174.75	119.89	124.97	101.85	11.94	4	30.00	44.96	7.87 / 6.85	266.70	203.20	31.75	8	79.83
4	102	101.60	546.10	548.89	546.10	224.79	149.86	149.86	124.97	13.97	4	45.01	64.77	13.97 / 8.89	311.15	241.30	34.93	8	149.69
6	152	151.89	704.85	711.20	704.85	249.94	179.83	210.06	165.10	22.10	4	45.01	64.77	13.97 / 8.89	393.70	317.50	38.10	12	279.41

## SUPPLY CHAIN

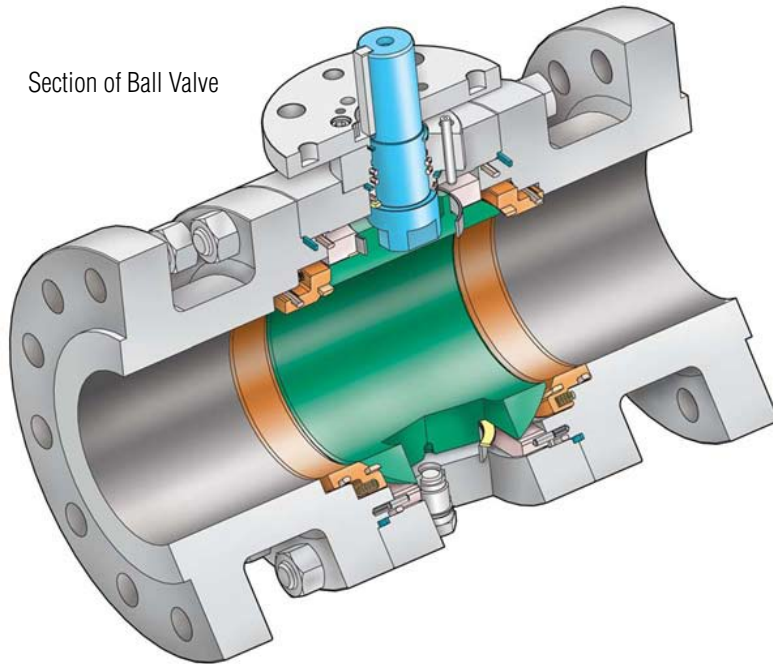
We earned a reputation for on time delivery to Oil, Gas, Steel, power and Refineries. Our business associates in domestic and international are influential to meet the expectations of our valued customers.

- Valve Ball processing (Grinding & Lapping) from 2 Inch to 16 inch diameter
- Custom valve balls
- Specialty spherical products
- Surface finish 0.4 Ra & Sphericity 20 micron accurac

## Parts of Ball Valve



Section of Ball Valve



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