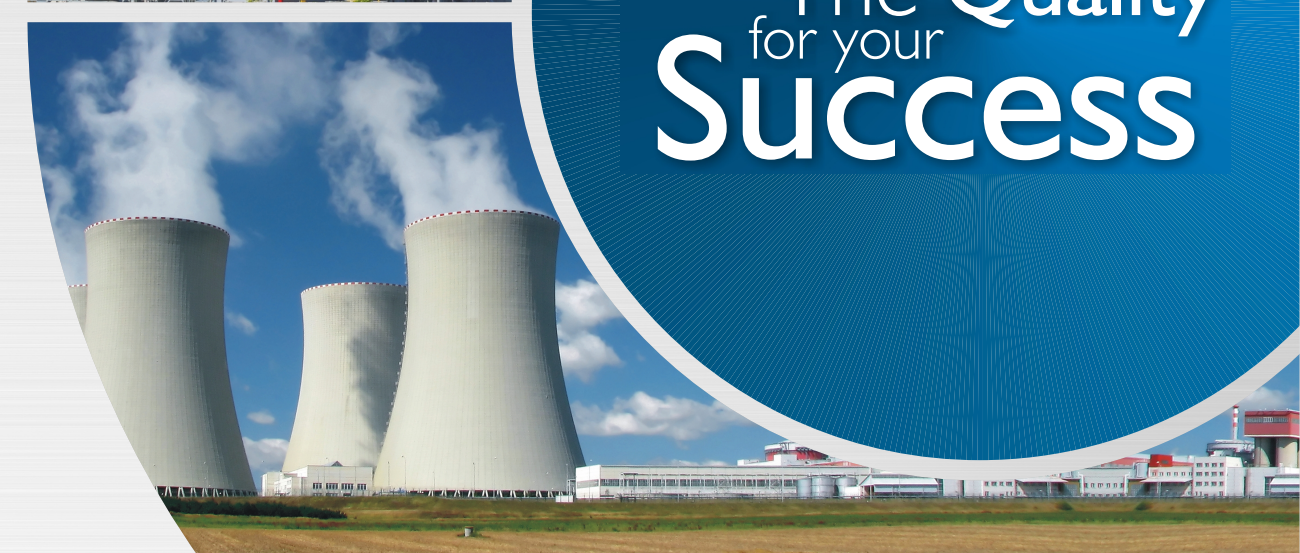


AN ISO 9001:2015 CERTIFIED

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## NUTECH CONTROLS

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# NUTECH

# COMPANY INTRODUCTION

With a vision of becoming the leading Industrial & Automation Valve manufacturing and supplying company Nu-tech Controls established in 1995. We would like to introduce our selves as one of the leading Industrial & Automation Valves like **Ball Valve, Gate Valve, Globe Valve, Check Valve, Automatic Control Valves, Pressure Reducing Valves, Safety Relief Valves, Pressure Reducing Stations, Pneumatic Control Valves & High Pressure Valves** manufacturer based in the city of Ahmedabad. Our products are precision made widely used in Oil, Gas, Petrochemicals, Power, Fertiliser & Allied Industry worldwide. We are in exports of our precise products around the globe and have a network and promoters with enthusiastic response and rapid market growth. Our installed testing facility is having the capacity of 50,000 PSI of hydraulic pressure, 10,000 PSI of Pneumatic Pressure and Helium & Cryogenic Testing upon requirements. Quality and tailor made valve is our strength.



Continuously upgrade itself with innovations and convergence of new technologies.

Meet the changing trends by creating value-for-money products.

Add more and more smiles in the faces of thousand of satisfied customers.

## CHAIRMAN'S MESSAGE

To embark on a journey of success one needs the tools of preparedness, foresight and strategy. These lead to the path of growth and high quality operation. Team Nu-Tech continues to emerge as a leading brand in Industrial and Automation Valve Products. With Its unmatched quality, state-of-the-art technology and pool of talented people, the group sets its vision.

VIPUL SHAH (Chairman)

## QUALITY POLICY

We at Nu-Tech Controls are committed for manufacturing and supplying products that shall give excellent performance and deep satisfaction to our global customers. We strive to achieve growth and leading position in supplying consistent quality products to our valued customers. Complying to requirements and consistent improvement in effectiveness of quality management system of API SPEC Q1, ISO 9001, API SPEC. 6D, API STD. 602 and API SPEC. 6A & also creating an environment of teamwork and innovative approach.

## OUR ACHIEVEMENTS

• ISO 9001 : 2015 CERTIFIED • API 6A, 602, 6D MONOGRAM • IBR CERTIFIED • FIRE SAFE TEST CERTIFIED

## PRODUCT RANGE

- Ball Valves (Metal to Metal/Fire Safe/High & Low Pressure)
- Gate Valves
- Globe Valves
- Check Valves
- Butterfly Valves
- Strainer (Y Type, T Type & Bucket Type)
- Automatic Control Valves
- Pressure Regulating Valves
- Pressure Reducing Valves
- Pressure Reducing Stations
- Safety Relief Valve
- Chock Valves
- Control Valves
- Pressure Vessels & Equipments, Skids



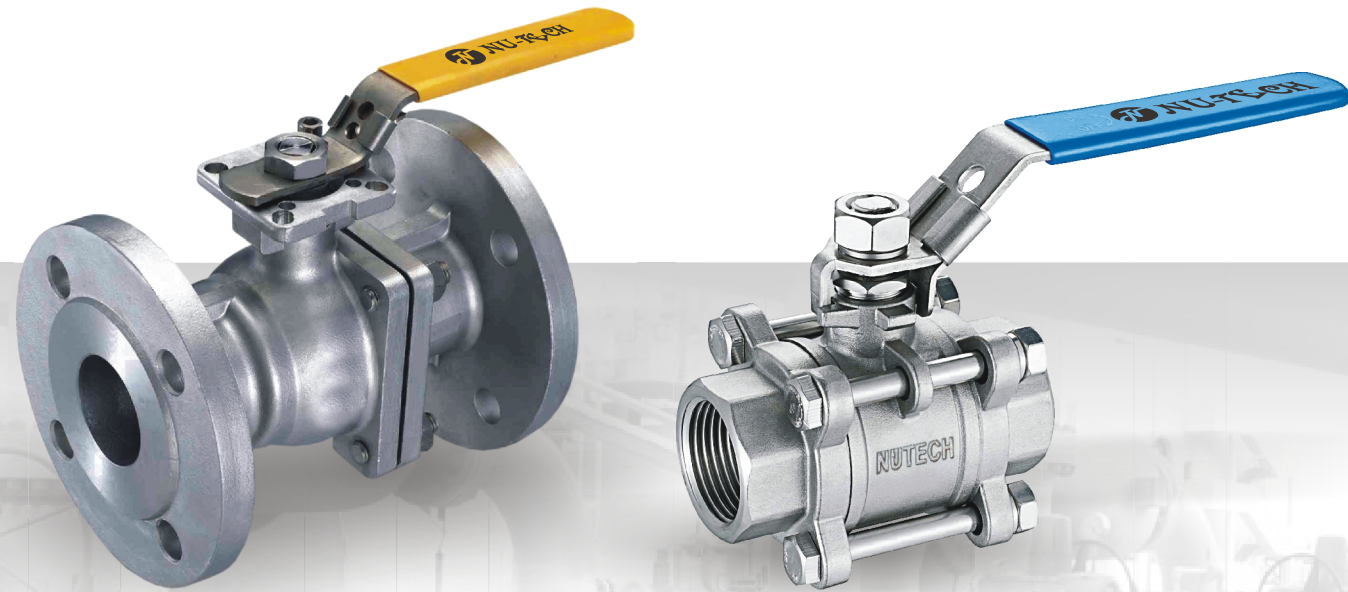
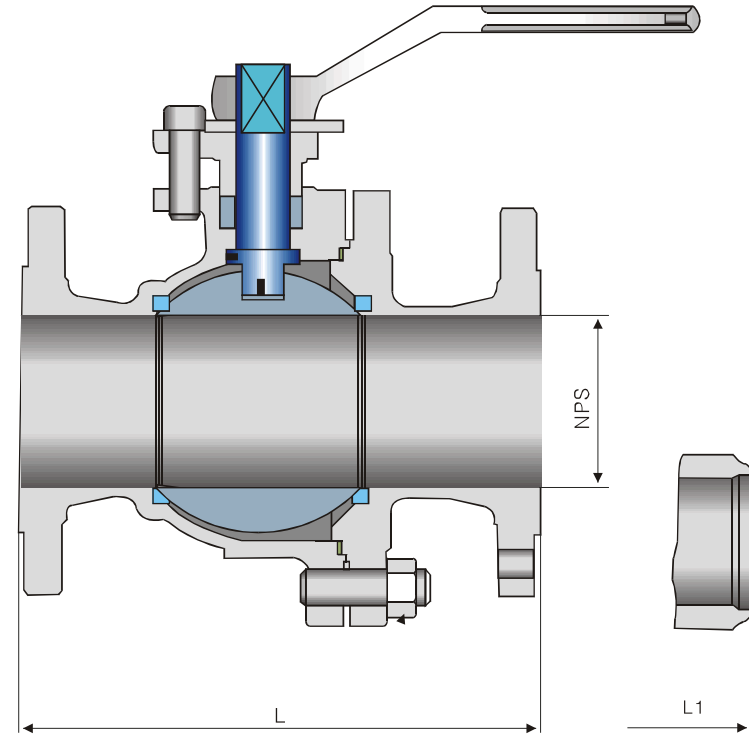
# FLOAT BALL VALVE

## Specifications

- Steel Ball Valves API 608/API 6D
- Steel Ball Valves ISO 14313
- Fire Safe, API 607
- Steel Valves ASME B16.34
- Face To Face ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection And Test API 598/API 6D

## Design Features

- Full Port Design/Reduced Port Design
- BB. Bolted Bonnet
- Floating Ball Type
- Blow-out Proof Stem
- Fire Durable Construction
- Anti Static Device
- Stopper Device
- ISO 5211 Mounting Pad
- Flanged Or Butt Welding Ends
- Available With Bg Operator



## Design

NU-TECH steel ball valves are designed and manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of American Petroleum Institute standard API608 & API 6D. British standard BS 5351 and generally, Conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.

## Range of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy & stainless steels. For special applications they can be supplied in other grades of alloy & stainless steel. There is a full range of trim materials to match any service optional packing & gasket materials are available for a full range of service conditions.

**Operation :** Extended lever for easy operation. also available with gearing motor actuators, pneumatic or hydraulic actuators for more difficult services.

**Body & Bonnet :** Split or 3-piece, split body & bonnet for 12" & small disassembles easily for repair component.

**Bore :** Full bore or reduced bore. full-bore design provides exceptional flow control.

**End Connections :** A choice of flanged, RTJ flanged or butt welding end for piping flexibility.

**Packing :** Std packing multiple V-teflon packing. combined with live loading, maintains packing compression under high-cycle and severe service applications. Graphite packing is used for high-temperature situation.

**Blow Out Proof Stem :** Blow-out proof stem a pressure-safe stem shoulder design that protects against failure under excess pressure.

**Fire Safe :** Fire safe designed to API607 or BS 6755 to grant their operation suitability in case of fire. Secondary metal-to- metal seal acts as backup if primary seal is destroyed by fire. Valves ordered for compliance with API607 will be provided with graphite packing and gaskets.

## Available Modifications for Nu-tech Valves

- Trim Changes
- End Connection Modifications
- Packing and Gasket Change
- Operator Mounting
- Handwheel Extensions
- Pressure Equalizing
- Customer Specified Coatings
- Weld End Bore Changes
- Oxygen & Chlorine Clearing & Packaging



DIMENSIONAL DATA'S OF ANSI CLASS 150 LB													
NPS	1/2	3/4	1	1½	2	2½	3	4	6	8	10	12	in
DN	15	20	25	40	50	65	80	100	150	200	250	300	mm
L (RF)	4.25	4.60	5	6.5	7	7.5	8	9	15.5	18	21	24	in
	108	117	127	165	178	191	203	229	394	457	533	610	mm
L1 (BW)	5.5	6	6.5	7.5	8.5	9.5	11.14	12	18	20.5	22	25	in
	140	152	165	190	216	241	283	305	457	521	559	635	mm
Wt	2.3	3	4.5	7	9.5	15	19	33	93	160	200	280	Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB													
NPS	1/2	3/4	1	1½	2	2½	3	4	6	8	10	in	
DN	15	20	25	40	50	65	80	100	150	200	250	mm	
L (RF)	5.5	6	6.5	7.5	8.5	9.5	11.14	12	15.86	19.75	22.36	in	
	140	152	165	190	216	241	283	305	403	502	568	mm	
L1 (BW)	5.5	6	6.5	7.5	8.5	9.5	11.12	12	18	20.5	22	in	
	140	152	165	190	216	241	283	305	457	521	559	mm	
Wt	2.3	3	5.5	10.5	14.5	23.5	30	55	118	200	250	Kg.	

DIMENSIONAL DATA'S OF ANSI CLASS 600 LB									
NPS	1/2	3/4	1	1½	2	2½	3	in	
DN	15	20	25	40	50	65	80	mm	
L (RF/BW)	6.5	7.5	8.5	9.5	11.5	13	14	in	
	165	190	216	241	292	330	356	mm	
L1 (RTJ)	--	--	--	--	11.63	13.13	14.13	in	
	--	--	--	--	295	333	359	mm	
Wt	3.3	4.5	7.2	13.5	19	31	39	Kg.	

# TRUNNION MOUNTED BALL VALVE

## Design Features

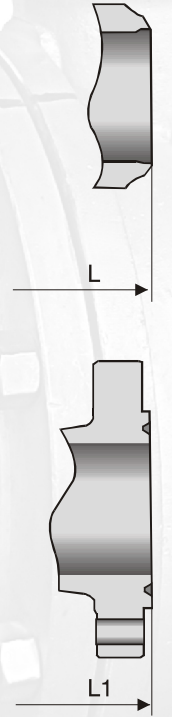
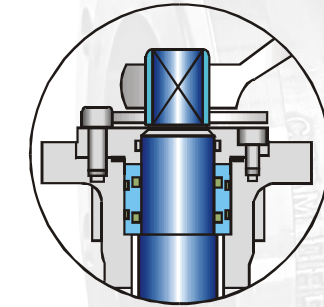
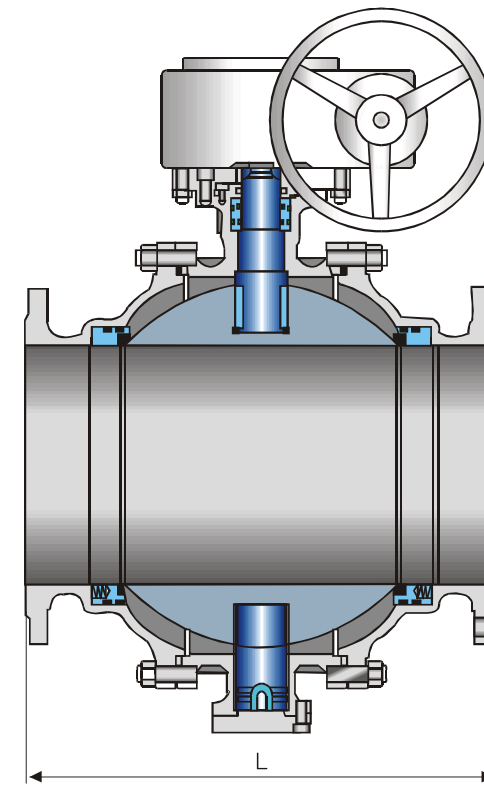
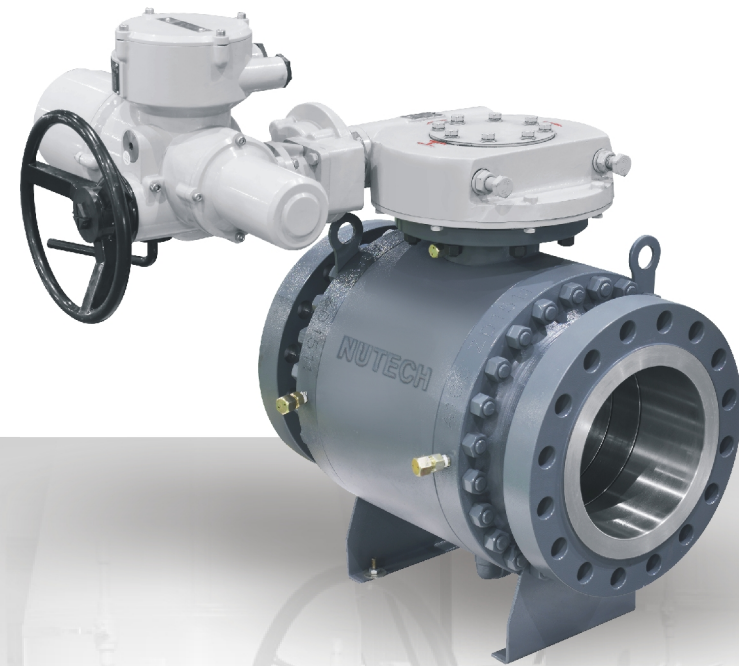
- Full Port Design / Reduced Port Design
- Split Body Three Pieces Body for 12" & Above
- Trunnion Mounted Ball Type
- Blow-out Proof Stem
- Fire Durable Construction
- Anti Static Device
- Stopper Device
- Flanged or Butt Welding Ends
- Metal sealed / Soft sealed

## Specifications

- Steel Ball Valves API6D
- Fire Safe
- Anti Statics
- Steel Valves ASME B16.34
- Face To Face ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection And Test API 598/API 6D

## Design

NU-TECH steel ball valves are designed and manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of American Petroleum Institute standard API608 & API 6D. British standard BS 5351 and generally, Conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.



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- End Connection Modifications
- Packing and Gasket Change
- Operator Mounting
- Handwheel Extensions
- Pressure Equalizing
- Customer Specified Coatings
- Weld End Bore Changes
- Oxygen & Chlorine Clearing & Packaging

DIMENSIONAL DATA'S OF ANSI CLASS 150 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF)	7	7.5	8	9.00	15.5	18	21	24	27	30	34	36	42	45	49	in
	178	191	203	229	394	457	533	610	686	762	864	914	1067	1143	1245	mm
LI (BW)	8.5	9.5	11.12	12	18	20.5	22	25	30	33	36	39	45	49	53	in
	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	mm
Wt	15	19	27	38	81	140	160	205	260	390	510	750	1200	1400	1860	Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF)	8.5	9.5	11.14	12	15.86	19.76	22.38	25.5	30	33	36	39	45	49	53	in
	216	241	283	305	403	502	568	648	762	838	914	991	1143	1245	1346	mm
LI (BW)	8.5	9.5	11.12	12	18	20.5	22	25	30	33	36	39	45	49	53	in
	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	mm
Wt	19	24	34	48	101	175	200	225	325	485	635	935	1500	1750	2450	Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 600 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF/BW)	11.5	13	14	17	22	26	31	33	35	39	43	47	55	57	61	in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	mm
LI (RTJ)	11.62	13.12	14.13	17.13	22.13	26.14	31.14	33.11	35.12	39.13	43.11	47.25	55.4	57.5	61.5	in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	mm
Wt	26	35	58	81	142	287	540	780	1000	1300	1700	2100	3400	3800	4500	Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 900 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20				in
DN	50	65	80	100	150	200	250	300	350	400	450	500				mm
L (RF/BW)	14.50	16.50	15	18	24	29	33	38	40.50	44.45	48	52				in
	368	419	381	457	610	737	838	965	1029	1130	1219	1321				mm
LI (RTJ)	14.61	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.50				in
	371	422	384	460	613	740	841	968	1038	1140	1232	1334				mm
Wt	31	43	68	98	171	345	650	940	1205	1565	2050	2535				Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB																
NPS	2	2½	3	4	6	8	10	12								in
DN	50	65	80	100	150	200	250	300								Mm
L/L1 (RF/BW)	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5								in
	368	419	470	546	705	832	991	1130								Mm
L2 (RTJ)	14.63	16.63	18.63	21.63	28	33.13	39.38	45.13								in
	371	422	473	549	711	841	1000	1146								Mm
Wt	49	67	106	153	268	540	1020	1475								kg.

DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB																
NPS	2	2½	3	4	6	8	10	12								in
DN	50	65	80	100	150	200	250	300								mm
L/L1 (RF/BW)	17.75	20	22.75	26.5	36	40.25	50	56								in
	451	508	578	673	914	1022	1270	1422								mm
L2 (RTJ)	17.88	20.25	23	26.88	36.5	40.88	50.88	56.88								in
	454	514	584	683	927	1038	1292	1445								mm
Wt	55	76	120	173	302	612	1150	1665								kg.

# THREE PIECE BALL VALVE

## SOCKET-WELD/ SCREWED END

### Specifications

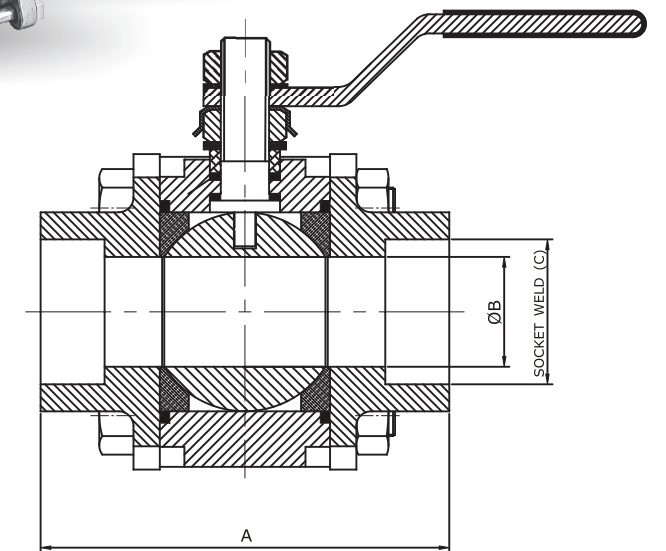
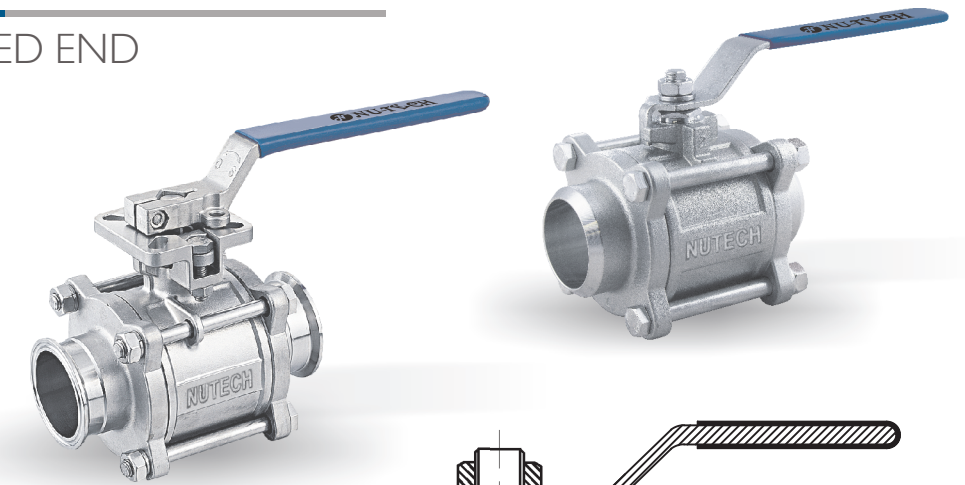
- Ball Valve API 6D / ISO 17292
- Screwed End (NPT) ASME B1.20.1
- Screwed End (BSP) ISO 7-1
- Socket Weld End ASME B16.11
- Fire Test API 607/ ISO 10497
- Pressure Testing API 598/ISO 5208

### Design Features

- Blowout Proof Stem
- Antistatic Device
- Mirror-finished solid stainless steel balls
- Seats with pressure-relieving slots
- Fire-safe
- Actuator mounting Flange
- On-line Service
- Reduce bore/Full bore

### End Connection Identification

Grooves are provided on body connectors to differentiate valves based on end connections-one groove for socket-weld ends, two grooves for valves with screwed ends (NPT threads) and no grooves for valves with screwed ends (BSP threads)



DIMENSIONAL DATA'S SOCKET/SCREWED END CLASS-800							
NPS	1/2	3/4	1	1¼	1½	2	in
DN	15	20	25	32	40	50	mm
A	2.68	2.87	3.78	4.05	4.57	5.04	in
	68	73	96	103	116	128	mm
ØB	0.49	0.74	0.98	1.26	1.49	1.96	in
	12.5	19	25	32	38	50	mm
C(SW)	0.86-0.87	1.07-1.09	1.33-1.35	1.68-1.7	1.92-1.94	2.41-2.43	in
	21.8-22.2	27.2-27.6	33.9-34.3	42.7-43.1	48.8-49.2	61.2-61.7	mm
C(NPT)	1/2"	3/4"	1"	1¼"	1½"	2"	in

DIMENSIONAL DATA'S SOCKET/SCREWED END CLASS-1500							
NPS	1/2	3/4	1	1½	2		in
DN	15	20	25	40	50		mm
A	3.35	3.54	4.33	5.32	5.91		in
	85	90	110	135	150		mm
ØB	0.51	0.51	0.75	0.98	1.5		in
	13	13	19	25	38		mm
C(SW)	0.86-0.87	1.07-1.09	1.33-1.35	1.92-1.94	2.41-2.43		in
	21.8-22.2	27.2-27.6	33.9-34.3	48.8-49.2	61.2-61.7		mm
C(NPT)	1/2"	3/4"	1"	1½"	2"		in

# TORQUE VALVE & MOUNTING FLANGE DIMENSIONS

DIMENSIONAL DATA															
Size in Inch	Class	Torque N.m	A	B	C	F	T	n-d	P	ISO 5211 Flange No.	Key Size mm	G mm	D mm	h mm	H mm
6	150	631	150	125	85	3	18	4-13	10	F12	10X10	41	36	55	188
	300	854	150	125	85	3	18	4-13	10	F12	10X10	41	36	55	188
	600	1609	175	140	100	4	20	4-18	10	F14	12X12	51	45	65	208
	900	1927	210	165	130	5	22	4-22	12	F16	14X14	62	55	80	215
	1500	3512	210	165	200	5	24	4-22	14	F16	16X16	68	60	90	235
8	2500	5454	300	254	130	5	28	8-18	16	F25	16X16	73	65	95	270
	150	987	210	165	130	5	20	4-22	10	F16	12X12	51	45	60	233
	300	1562	210	165	130	5	20	4-22	10	F16	12X12	51	45	60	233
	600	2501	210	165	130	5	22	4-22	12	F16	14X14	62	55	80	249
	900	4012	210	165	200	5	22	4-22	14	F16	16X16	38	60	90	266
10	1500	6513	300	254	200	5	28	8-18	16	F25	18X18	79	70	105	285
	2500	8495	300	165	130	5	32	8-18	16	F25	18X18	84	75	110	355
	150	1321	210	165	130	5	20	4-22	12	F16	14X14	62	55	80	278
	300	2304	210	165	130	5	20	4-22	12	F16	14X14	62	55	80	278
	600	3450	210	254	200	5	24	4-22	14	F16	16X16	68	60	90	300
12	900	5017	300	254	200	5	25	8-18	16	F25	18X18	79	70	105	315
	1500	7996	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	345
	2500	13148	300	165	130	5	32	8-18	16	F25	20X20	95	85	125	412
	150	1650	210	165	130	5	24	4-22	14	F16	16X16	68	60	90	318
	300	3041	210	254	200	5	24	4-22	14	F16	16X16	68	60	90	320
14	600	4507	300	254	200	5	25	8-18	16	F25	18X18	79	70	105	345
	900	6512	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	360
	1500	10078	300	298	260	5	30	8-18	16	F25	20X20	95	85	125	408
	2500	18007	350	254	200	5	38	8-22	20	F30	24X24	107	95	140	478
	150	2415	300	254	200	5	26	8-18	16	F25	16X16	73	65	95	353
16	300	4019	300	254	200	5	26	8-18	16	F25	16X16	73	65	95	360
	600	6578	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	376
	900	9489	300	254	200	5	28	8-18	16	F25	20X20	95	85	125	388
	1500	14860	300	254	200	5	35	8-18	16	F25	24X24	107	95	140	448
	150	3314	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	393
18	300	3550	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	406
	600	9025	300	254	200	5	28	8-18	16	F25	20X20	95	85	125	414
	900	12877	300	254	200	5	30	8-18	16	F25	24X24	107	95	140	442
	1500	21857	350	298	230	5	35	8-22	20	F30	28X28	119	105	155	490
	150	5148	300	254	200	5	28	8-18	16	F25	18X18	84	75	110	435
20	300	8375	300	254	200	5	28	8-18	16	F25	20X20	95	85	125	448
	600	13493	300	254	200	5	30	8-18	16	F25	24X24	107	95	140	458
	900	18975	350	298	230	5	32	8-22	20	F30	28X28	119	105	165	487
	1500	29032	350	298	230	5	38	8-22	20	F30	32X32	136	120	180	545
	150	6425	300	254	200	5	30	8-18	16	F25	20X20	90	80	120	477
24	300	10987	300	254	200	5	30	8-18	16	F25	24X24	107	95	140	485
	600	18502	350	298	230	5	32	8-22	20	F30	28X28	119	105	165	510
	900	26048	350	298	230	5	38	8-22	20	F30	32X32	136	120	180	530
	1500	40907	415	356	260	5	42	8-33	28	F35	36X36	158	140	210	580
	150	12379	300	254	200	5	32	8-18	16	F25	24X24	102	90	135	562
24	300	19384	350	298	230	5	32	8-22	20	F30	28X28	124	110	165	565
	600	29546	350	298	230	5	38	8-22	20	F30	32X32	136	120	180	602
	900	42379	415	356	260	5	42	8-33	28	F35	36X36	158	140	210	630
	1500	65223	475	406	300	8	48	8-39	28	F40	40X40	180	160	240	730

**Note :**

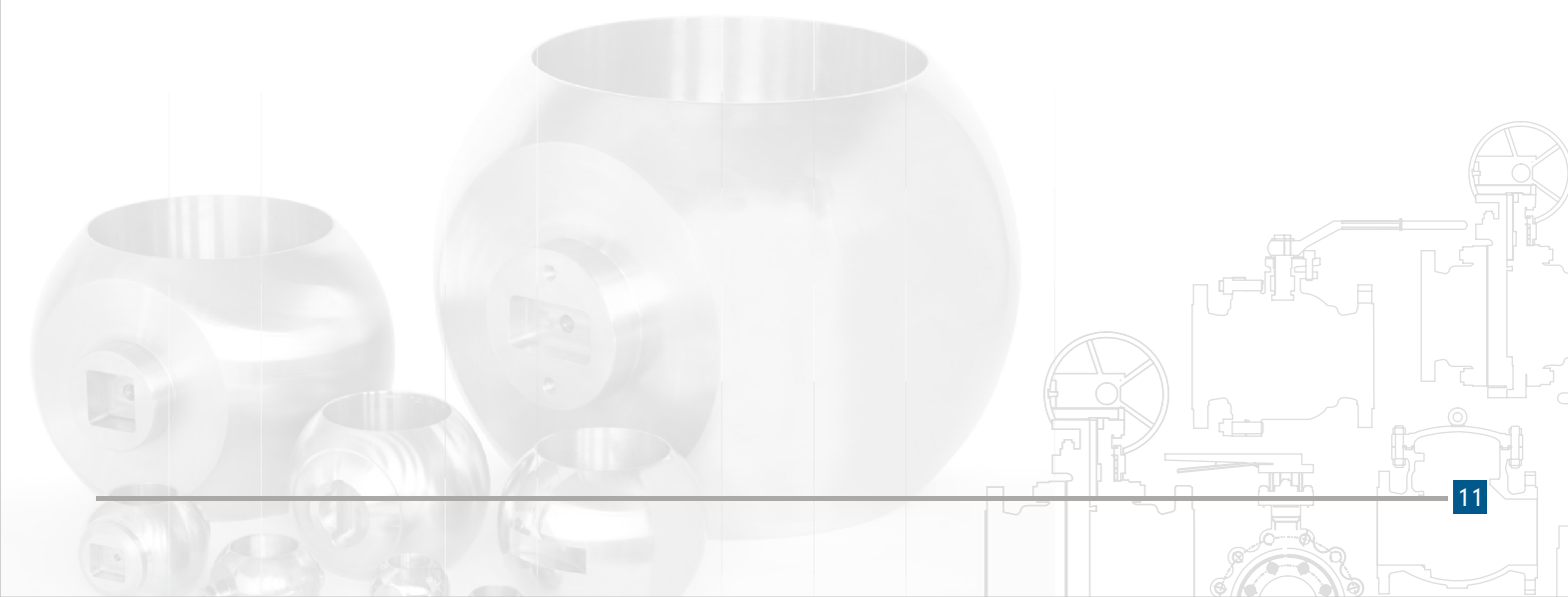
- The torque is for valves with PTFE seat or Nylon seat as per different size / class selection
  - The torque values showed in above table is the valve torque at normal temperature.
- For customer's sizing actuator : (a) If medium temperature is -10 C - 400C, the output torque of actuator should be 1.5 time the valve torque.  
 (b) If medium temperature is -10 C the output torque of actuator should be 2 or 2.5 time the valve torque.

# SOFT MATERIAL DATA

SPECIFICATIONS FOR SEAT MATERIALS				
	PTFE	RPTFE	(Nylon + MoS <sub>2</sub> )	PEEK
Tensile Strength (Mpa)	24.8	25.4	75-100	91
Compressive Strength (Mpa)	35	52	100-140	137
Elongation (%)	250	120	10-30	50
Hardness (SHA)	56	60	78	82
Water Absorption (%)	<0.01	<0.01	0.7	0.12
Specific Gravity (G/cm <sup>3</sup> )	2.2	2.2	1.2	1.35
Temperature Range (Class)	-300-400	-150-425	-40-300	-150-500
Pressure Rating (Class)	150-600	150-600	150-1500	150-1500
Service	Chemical & Cryogenic	Chemical & Cryogenic	High Pressure & Low Temperature	High Pressure & Low Temperature
NYLON 12		DELTRIN		
Tensile Strength (Mpa)	60	68		
Compressive Strength (Mpa)	79	110		
Elongation (%)	200	220		
Hardness (SHA)	75	78		
Water Absorption (%)	0.2	0.2		
Specific Gravity (G/cm <sup>3</sup> )	1.01	1.41		
Temperature Range (Class)	-58-250	-58-230		
Pressure Rating (Class)	600-1500	150-1500		
Service	High Pressure & Low Temperature	High Pressure & Low Temperature		

SPECIFICATIONS FOR SEAT MATERIALS				
	FLEXIBLE GRAPHITE	SPIRAL WOUND 316+GRAPHITE	PTFE	SPIRAL WOUND MONEL+PTFE
Temperature Range (°F)	-300-900	-300-900	-300-400	-300-400
PH	0-14	0-14	0-14	0-14
Service Application	Fire-safe	Fire-safe	Cryogenic, High Corrosive	Cryogenic, High Corrosive

\* Due to quick develop, We reserve the right to institute changes in material, design and specifications for all NU-TECH designed valves without prior notice.



# GATE VALVE

## Design Features

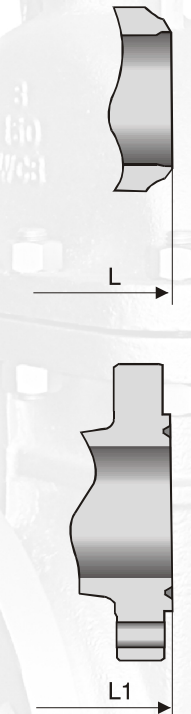
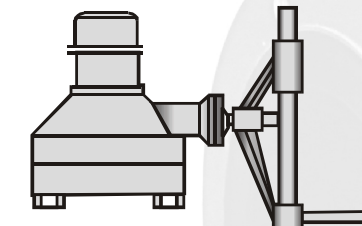
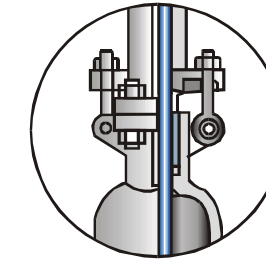
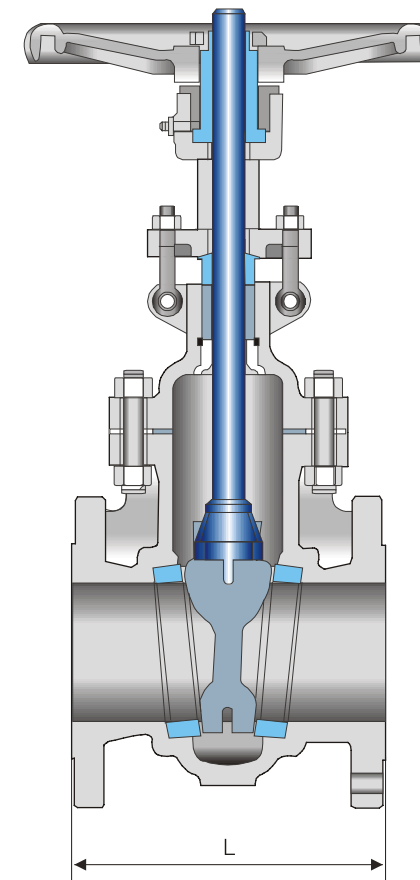
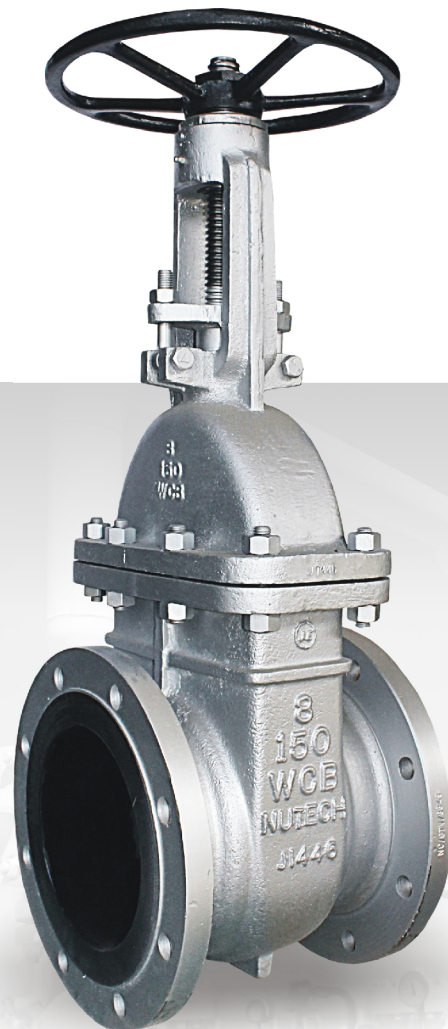
- Full Port Design
- Os & y Out Side Screw and Yoke
- Bb. Bolted Bonnet
- Flexible Wedge, Fully Guided
- Choice Of Solid Or Split Wedge
- Renewable Seat Rings
- T-head Stem
- Rising Stem And Non-rising Hand Wheel
- Flanged Or Butt Welding Ends
- Available With Bg Operator

## Specifications

- Steel Gate Valves API 600/API 6D
- Steel Gate Valves ISO 10434/ISO 14313
- Steel Valves ASME B16.34
- Face To Face ASME B16.10/API 6D
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection And Test API 598/API 6D

## Design

NU-TECH cast steel gate valves are designed and manufactured to provide maximum service life and dependability. All gate valves are full ported and meet the design requirements of American Petroleum Institute standard API600 & API 6D. British standard BS1414 BS EN 1984 and generally, Conform to American Society of Mechanical Engineers standard ASME B16.34 valves are available in a complete range of body/bonnet materials and trims.



## Range Of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy & stainless steels. For special applications they can be supplied in other grades of alloy & stainless steel. There's a full range of trim materials to match any service optional packing & gasket materials are available for a full range of service conditions.

**Operation :** Large hand wheels for easy operation. Also available with gearing motor actuators, pneumatic or hydraulic actuators for more difficult services.

**Live Load Packing :** In services requiring frequent cycling or with high pressure/temperature variations, live loading extends the service life between maintenance periods by requiring less instruments. Belleville springs are employed to provide constant packing gland stress

**Wedge :** Integral guide rib faces assure self-centering of wedge. flexible wedge gate valve has a one piece. twin-disc wedge, which is designed so that each half flexes independently. Available in solid flex split and his designs.

**OS & Y :** Outside screw and yoke. Cast steel gate valve yoke integral with bonnet for 150 Lbs-8" 600 Lbs-6" 900 Lbs-4" & small.

**BB :** Bolted bonnet, Welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/temperature variations.

**End Connections :** A choice of flanged, RTJ flanged or butt welding end for piping flexibility.

**Lantern Ring & Double Pacing Set :** Lantern ring leak-off fitting connection & double packing stack is optionally available for critical services.

**Yoke Sleeve :** Extra long thread engagement between yoke sleeve and stem provide long thread life. Valves of sizes larger than 150 Lb-12", 300 Lb-10", 600 Lb-6", 900 Lb / 1500 Lb / 4" are regularly provided with roll bearing yokes.

**Stem :** All wedge gate valves are provided with upset forged T-head stems by forging the T-head. The stem at the stem-wedge connection is strengthened. This design also allows the wedge possibility of a bent stem jamming the wedge.

**Body to Bonnet Joint :** A flat face gasket joint is used in the 150lb valves. A male and female joint is used in 300Lb to 600Lb valves. Ring joint is 900Lb & higher rated valves.

## Available Modifications For Nu-tech Cast Steel Valves

- |                                |  |
|--------------------------------|--|
| • Trim Changes                 | • By-Pass                                |
| • End Connection Modifications | • Customer Specified Coatings            |
| • Packing and Gasket Change    | • Weld End Bore Changes                  |
| • Operator Mounting            | • Oxygen & Chlorine Clearing & Packaging |
| • Handwheel Extensions         | • Packaging                              |

## DIMENSIONAL DATA'S OF ANSI CLASS 150 LB

NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF)	7	7.5	8	9	10.5	11.5	13	14	15	16	17	18	20	22	24	in
	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	mm
L1 (BW)	8.5	9.5	11.13	12	15.88	16.5	18	19.75	22.5	24	26	28	32	34	36	in
	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	mm
Wt	15.4	15.4	35	50	80	135	185	280	395	530	670	775	1150	1521	1838	kg.

## DIMENSIONAL DATA'S OF ANSI CLASS 300 LB

NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF/BW)	8.5	9.5	11.13	12	15.88	16.5	18	19.75	30	33	36	39	45	49	53	in
	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	mm
L1 (RTJ)	9.13	10.13	11.75	12.63	16.5	17.13	18.63	20.38	30.62	33.62	36.63	39.75	45.88	50	54	in
	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	mm
Wt	17.5	35	50	78	140	212	305	505	765	1005	1205	1685	2400	3090	3310	kg.

## DIMENSIONAL DATA'S OF ANSI CLASS 600 LB

NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm
L (RF/BW)	11.5	13	14	17	22	26	31	33	35	39	43	47	55	in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	mm
L1 (RTJ)	11.63	13.13	14.13	17.13	22.13	26.13	31.13	33.13	35.13	39.13	43.13	47.25	55.38	in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	mm
Wt	18	52	69	123	264	464	725	945	1210	1765	1970	2420	3720	kg.

## DIMENSIONAL DATA'S OF ANSI CLASS 900 LB

NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm
L (RF/BW)	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	in
	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	mm
L1 (RTJ)	14.63	16.63	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.5	52.5	61.75	in
	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568	mm
Wt	74	109	130	195	367	380	1035	1395	1780	2165	3250	3530	5760	kg.

## DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB

NPS	2	2½	3	4	6	8	10	12	in
DN	50	65	80	100	150	200	250	300	mm
L/L1 (RF/BW)	14.5	16.5	18.5	21.5	27.75	32.75	39	44.50	in
	368	419	470	546	705	832	991	1130	mm
L2 (RTJ)	14.63	16.63	18.63	21.63	28	33.13	39.38	45.13	in
	371	422	473	549	711	841	1000	1146	mm
Wt	55	135	170	275	590	1100	1750	2500	kg.

## DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB

NPS	2	2½	3	4	6	8	10	12	in
DN	50	65	80	100	150	200	250	300	mm
L/L1 (RF/BW)	17.75	20	22.75	26.5	36	40.25	50	56	in
	451	508	578	673	914	1022	1270	1422	mm
L2 (RTJ)	17.88	20.25	23	26.88	36.5	40.88	50.88	56.88	in
	454	514	584	683	927	1038	1292	1445	mm
Wt	75	210	260	410	980	1650	2850	3480	kg.

## SWING CHECK VALVE

### Design Features

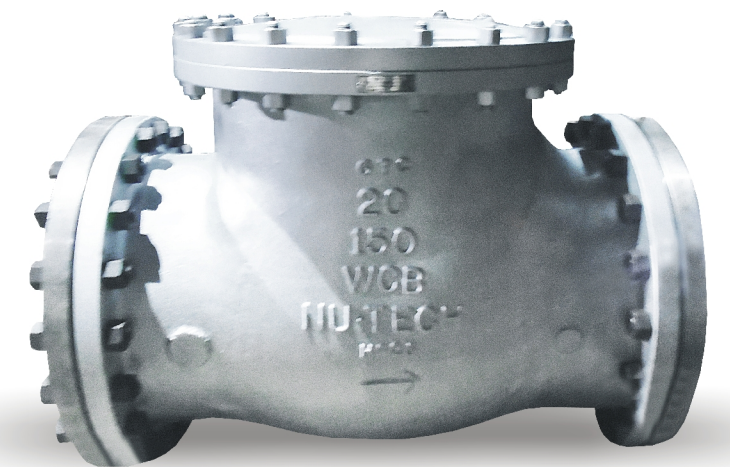
- Bolted Cover
- Swing Type, Anti-rotation Disc
- Renewable Seat Rings
- Non-penetrate Disc Shaft
- Horizontal Or Vertical Service
- Flanged Or Butt Welding Ends

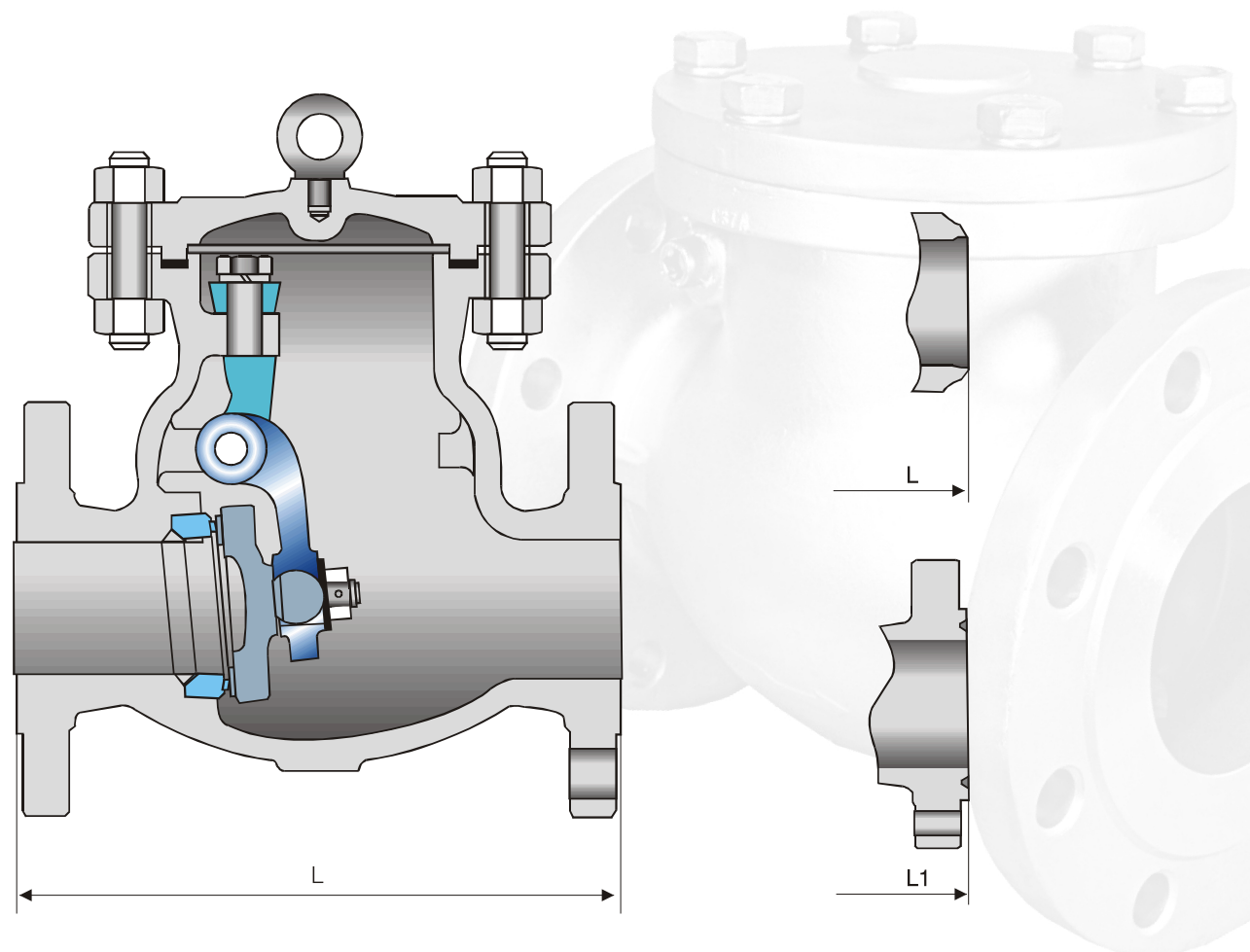
### Specifications

- Steel Check Valves API 6D /BS 1868
- Steel Check Valves ISO 14313
- Steel Valves ASME B16.34
- Face To Face ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection and Test API 598/API 6D

### Design

NU-TECH cast steel swing check valves are designed and manufactured to provide maximum service life and dependability. All check valves meet the design requirements of American Petroleum Institute standard API 6D and BS 1868 generally, Conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.





**Range of Materials**

Standard body/bonnet materials include nine grades of carbon, low alloy & stainless steels. For special applications they can be supplied in other grades of alloy & stainless steel. There's a full range of trim materials to match any service optional packing & gasket materials are available for a full range of service conditions.

**End Connections :** A choice of flanged, RTJ flanged or butt welding end for piping flexibility.

**Body To Cover Joint :** A male & female joint or tongue and groove joint is used 150Lb to 600Lb valves. Ring joint is used in the body to cover connection in 900Lb & higher rated valves.

**Outside Lever & Weight :** All external hinge pin swing check valves 12" & smaller are available with an optional outside lever and weight, internal hinge available with all swing check valves.

**Seat Ring :** Separate heavy duty, full ported rings for easy maintenance, Screwed or welded connection into body.

**HCU Weighted Mechanical Accumulator :** This design can be used to either dampen or assist closing of the check valve disc depending on orientation. by using the hydraulic control unit to buffer action the disc, the valve opens at lower flow rates.

**Available Modifications For Nu-tech Cast Steel Valves**

- Trim Changes
- End Connection Modifications
- Packing and Gasket Change
- Customer Specified Coatings
- Weld End Bore Changes
- Oxygen & Chlorine Clearing & Packaging

DIMENSIONAL DATA'S OF ANSI CLASS 150 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF/BW)	8	8.5	9.5	11.5	14	19.5	24.5	27.5	31	34	38.5	38.5	51	51	57	in
	203	216	241	292	356	495	622	699	787	864	978	978	1295	1295	1448	mm
LI (RTJ)	8.5	9	10	12	14.5	20	25	28	31.5	34.5	39	39	51.5	--	--	in
	216	229	254	305	368	508	635	711	800	876	991	991	1308	--	--	mm
Wt	14	20	25	40	71	118	177	263	353	542	632	855	970	1600	1600	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	mm
L (RF/BW)	10.5	11.5	12.5	14	17.5	21	24.5	28	33	34	38.5	40	53	53	59	in
	267	292	318	356	445	533	622	711	838	864	978	1016	1346	1346	1499	mm
LI (RTJ)	11.13	12.13	13.13	14.63	18.13	21.63	25.13	28.63	33.63	34.63	39.13	40.75	53.88	54	60	in
	283	308	333	371	460	549	638	727	854	879	994	1035	1368	1372	1524	mm
Wt	16	23	29	46	82	136	204	302	405	625	730	985	1115	1465	1840	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 600 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24			in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600			mm
L (RF/BW)	11.5	13	14	17	22	26	31	33	35	39	43	47	55			in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397			mm
LI (RTJ)	11.63	13.13	14.13	17.13	22.13	26.13	31.13	33.13	35.13	39.13	43.13	47.25	55.38			in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407			mm
Wt	24	35	44	70	125	207	310	460	615	945	1105	1495	1695			kg.

DIMENSIONAL DATA'S OF ANSI CLASS 900 LB																
NPS	2	2½	3	4	6	8	10	12	14	16	18	20				in
DN	50	65	80	100	150	200	250	300	350	400	450	500				mm
L (RF/BW)	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52				in
	368	419	381	457	610	737	838	965	1029	1130	1219	1321				mm
LI (RTJ)	14.63	16.63	15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.5	52.5				in
	371	422	384	460	613	740	841	968	1038	1140	1232	1334				mm
Wt	37	54	68	109	195	321	481	711	956	1468	1870	2316				kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB																
NPS	2	2½	3	4	6	8	10	12								in
DN	50	65	80	100	150	200	250	300								mm
L (RF/BW)	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5								in
	368	419	470	546	705	832	991	1130								mm
LI (RTJ)	14.63	16.63	18.63	21.63	28	33.13	39.38	45.13								in
	371	422	473	549	711	841	1000	1146								mm
Wt	40	63	70	115	250	470	740	1100								kg.

DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB																
NPS	2	2½	3	4	6	8	10	12								in
DN	50	65	80	100	150	200	250	300								mm
L (RF/BW)	17.75	20	22.75	26.5	36	40.25	50	56								in
	451	508	578	673	914	1022	1270	1422								mm
LI (RTJ)	17.88	20.25	23	26.88	36.5	40.88	50.88	56.88								in
	454	514	584	683	927	1038	1292	1445								mm
Wt	50	76	85	165	460	900	1300	1800								kg.

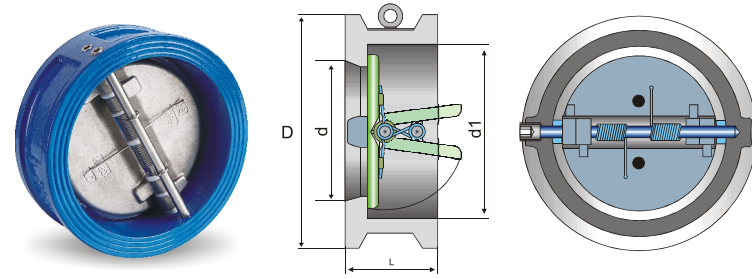
# WAFER CAST STEEL CHECK VALVE

## Specifications

- Steel Check Valves API 594/API 6D
- Steel Check Valves ISO 14313
- Steel Valves ASME B16.34
- Face To Face ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection and Test API 598/API 6D

## Design Features

- One Piece Body
- Renewable Split Disc
- Horizontal or Vertical Service
- Wafer Ends
- Available With Flanged Ends



DIMENSIONAL DATA'S OF ANSI CLASS 150 LB														
NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm
L (RF/BW)	2.38	2.62	2.88	2.88	3.88	5.00	5.75	7.12	7.25	7.50	8.00	8.62	8.75	in
	60	67	73	73	98	127	146	181	184	191	203	219	222	mm
D	4.00	4.88	5.38	6.75	8.62	10.88	13.25	16.00	17.62	20.12	21.50	23.75	28.12	in
	103	122	135	173	220	277	337	407	488	512	547	604	715	mm
d	2.00	2.50	3.25	4.00	6.00	8.00	10.00	12.00	13.75	15.75	17.75	19.75	23.62	in
	51	65	80	102	152	203	254	305	350	400	450	500	600	mm
DI	2.25	2.88	3.50	4.25	6.25	8.25	10.50	12.12	14.00	16.00	18.00	19.88	23.75	in
	56	73	88	108	160	210	266	310	355	405	455	505	605	mm
Wt	2	3	4	6	13	25	39	54	80	117	138	163	331	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB														
NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm
L (RF/BW)	2.38	2.62	2.88	2.88	3.88	5.00	5.75	7.12	8.75	9.12	10.38	11.50	12.50	in
	60	67	73	73	98	127	146	181	222	232	264	292	318	mm
D	4.25	5.00	5.75	7.00	9.88	12.00	14.12	16.50	19.00	21.12	30.38	25.62	30.38	in
	110	128	147	179	249	305	359	420	483	537	594	652	772	mm
d	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00	in
	51	65	80	102	152	203	254	305	350	400	450	500	600	mm
DI	2.25	2.88	3.50	4.25	6.38	8.25	10.50	12.25	14.00	16.00	18.00	20.00	24.00	in
	58	73	88	108	160	210	266	310	355	405	455	505	608	mm
Wt	3	4	6	8	18	31	51	77	117	190	200	265	410	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 600 LB												
NPS	2	2 1/2	3	4	6	8	10	12	14	16	in	
DN	50	65	80	100	150	200	250	300	350	400	mm	
L (RF/BW)	2.38	2.62	2.88	3.12	5.38	6.50	8.38	9.00	10.75	12.00	in	
	60	67	73	79	137	165	213	229	273	305	mm	
D	4.38	5.00	5.75	7.50	10.38	12.50	15.62	17.88	19.25	22.12	in	
	110	128	147	191	264	318	398	455	490	562	mm	
d	2.00	2.50	3.00	4.00	6.00	7.88	9.88	12.00	13.25	15.25	in	
	51	65	80	102	152	200	250	305	337	387	mm	
DI	2.25	2.88	3.50	4.25	6.38	8.38	10.50	12.25	14.00	15.75	in	
	58	73	88	108	162	212	266	312	355	405	mm	
Wt	4	5	8	11	26	55	95	140	223	360	kg.	

DIMENSIONAL DATA'S OF ANSI CLASS 900 LB											
NPS	2	2 1/2	3	4	6	8	10	12	14	16	in
DN	50	65	80	100	150	200	250	300	350	400	mm
L (RF/BW)	2.75	3.25	3.25	4.00	6.25	8.12	9.50	11.50	--	--	in
	70	83	83	102	159	206	241	292	--	--	mm
D	5.50	6.38	6.50	8.00	11.25	14.00	17.00	19.50	--	--	in
	140	162	165	204	286	356	432	495	--	--	mm
d	2.00	2.50	3.00	4.00	6.00	7.88	9.88	12.00	--	--	in
	51	62	80	102	152	200	250	305	--	--	mm
DI	2.25	2.88	3.50	4.25	6.38	8.38	10.50	12.25	--	--	in
	58	73	88	108	162	212	266	312	--	--	mm
Wt	8	11	14	20	42	84	145	220	--	--	kg.

# GLOBE VALVE

## Design Features

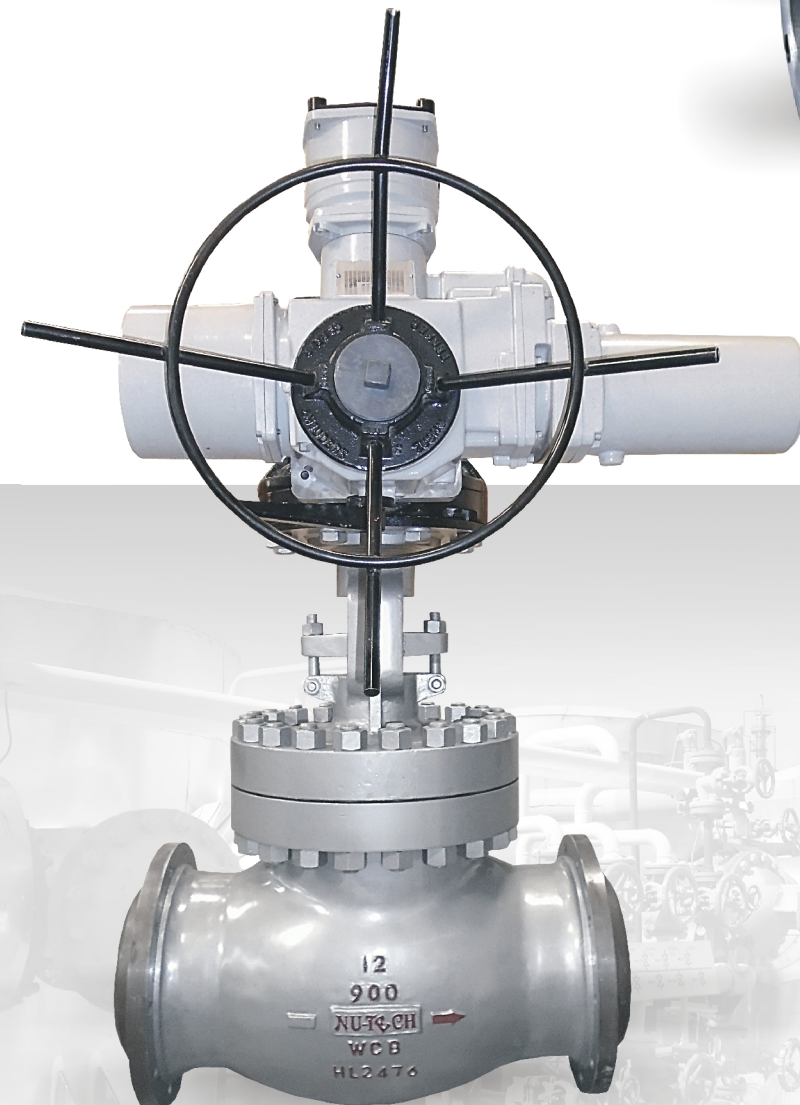
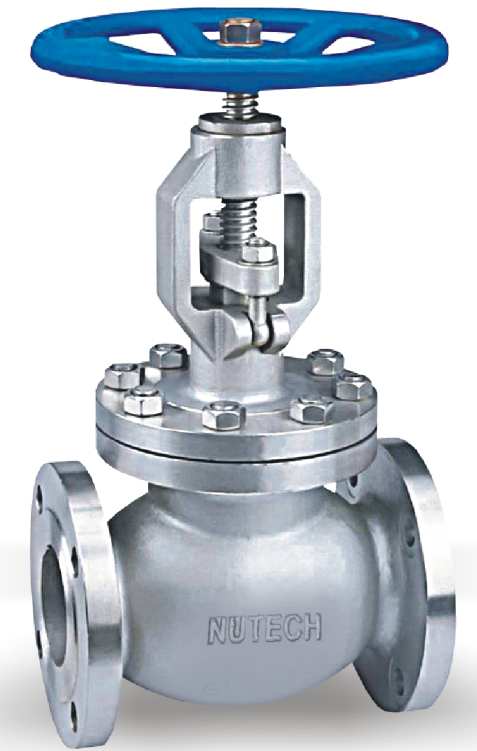
- Straight Pattern Body Design
- OS & Y Out Side Screw and Yoke
- Bolted Bonnet
- Yoke Integral With Bonnet
- Rising Stem And Hand Wheel
- Loose Disc, Choice Of Plug Or Ball
- Renewable Seat Ring
- Horizontal Service
- Flanged Or Butt Welding Ends

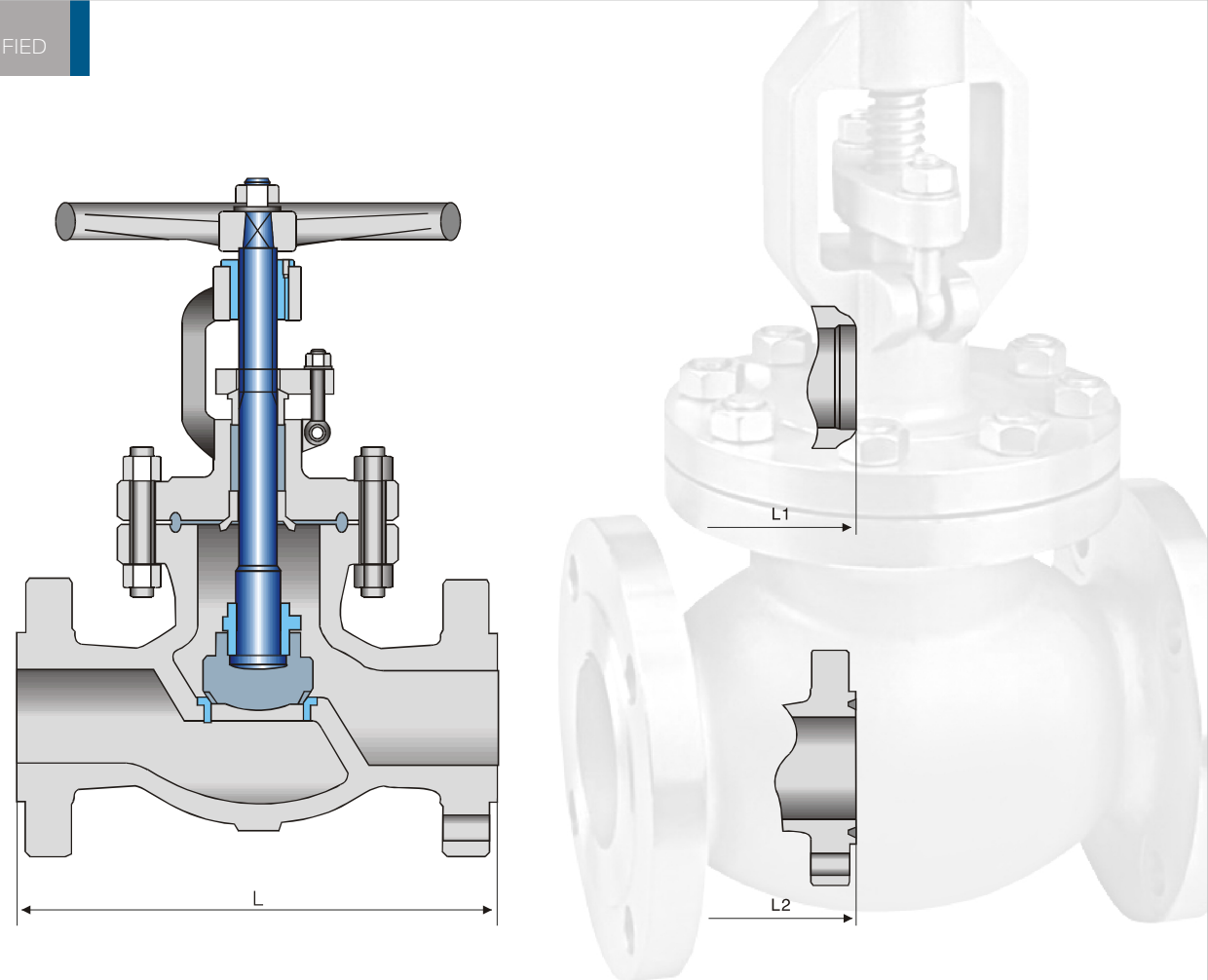
## Specifications

- Steel Globe Valves BS EN 1873
- Steel Valves ASME B16.34
- Face To Face ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Inspection And Test API 598

## Design

NU-TECH cast steel globe valves are designed and manufactured to provide maximum service life and dependability. All globe valves are full ported and meet the design requirements of American Petroleum Institute standard BSEN 1873 and generally, Conform to American Society of Mechanical Engineers standard ASME B16.34. Valves are available in a complete range of body/bonnet materials and trims.





**Range Of Materials**

Standard body/bonnet materials include nine grades of carbon, low alloy & stainless steels. For special applications they can be supplied in other grades of alloy & stainless steel. There's a full range of trim materials to match any service optional packing & gasket materials are available for a full range of service conditions.

**Operation :** Large hand wheels for easy operation. also available with gearing motor actuators, pneumatic or hydraulic actuators for more difficult services.

**Live Load Packing :** In services requiring frequent cycling or with high pressure/temperature variations, live loading extends the service life between maintenance periods by requiring less instruments. Belleville springs are employed to provide constant packing gland stress.

**Yoke Sleeve :** Furnished in aluminum bronze to reduce operating torque. Most size furnished with ball bearing yoke sleeves.

**Lantern Ring & Double Packing Set :** Lantern ring leak-off fitting connection & double packing stack is optionally available for critical services.

**Seat Rings :** Separate heavy duty, full ported rings for easy maintenance. Screwed or welded connection into body.

**OS & Y :** Outside screw and yoke. Cast steel gate valve yoke integral with bonnet for 10 & small.

**BB :** Bolted bonnet. Welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/temperature variations.

**End Connections :** A choice of flanged, RTJ flanged or butt welding end for piping flexibility.

**Body to Bonnet Joint :** A flat face gasket joint is used in the 150lb to 600lb valves. Ring joint is used in the body to bonnet connection in 900lb & higher rated valves.

**Disc :** All Plug disc is stem guided on all size. Disc has a differential angle front the seat to provide a line contact for maximum sealing. The bottom of V-port disc is floated by the body seat ring for maximum disc stability in throttling applications. the soft Teflon ring is excellent for lower temperature service where tight shut off required.

**Available Modifications For Nu-tech Cast Globe Valves**

- Trim Changes
- End Connection Modifications
- Packing and Gasket Change
- Operator Mounting
- Handwheel Extensions
- By-Pass
- Customer Specified Coatings
- Weld End Bore Changes
- Oxygen & Chlorine Clearing & Packaging

DIMENSIONAL DATA'S OF ANSI CLASS 150 LB											
NPS	2	2½	3	4	6	8	10	12	14	16	in
DN	50	65	80	100	150	200	250	300	350	400	mm
L/L1 (RF/BW)	8	8.5	9.5	11.5	16	19.5	24.5	27.5	31	36	in
	203	216	241	292	406	495	622	698	787	914	mm
L2 (RTJ)	8	8.5	9.5	11.5	16	19.5	24.5	27.5	31	36	in
	203	216	241	292	406	495	622	698	787	914	mm
Wt	15.4	15.4	35	55	98	165	305	425	950	830	Kg.

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB											
NPS	2	2½	3	4	6	8	10	12			in
DN	50	65	80	100	150	200	250	300			mm
L/L1 (RF/BW)	10.5	11.5	12.5	14	17.5	22	24.5	28			in
	267	292	318	356	444	559	622	711			mm
L2 (RTJ)	11.13	12.13	13.13	14.63	18.13	22.63	25.13	28.63			in
	282	308	333	371	460	575	638	727			mm
Wt	18	18	55	85	145	296	430	600			kg.

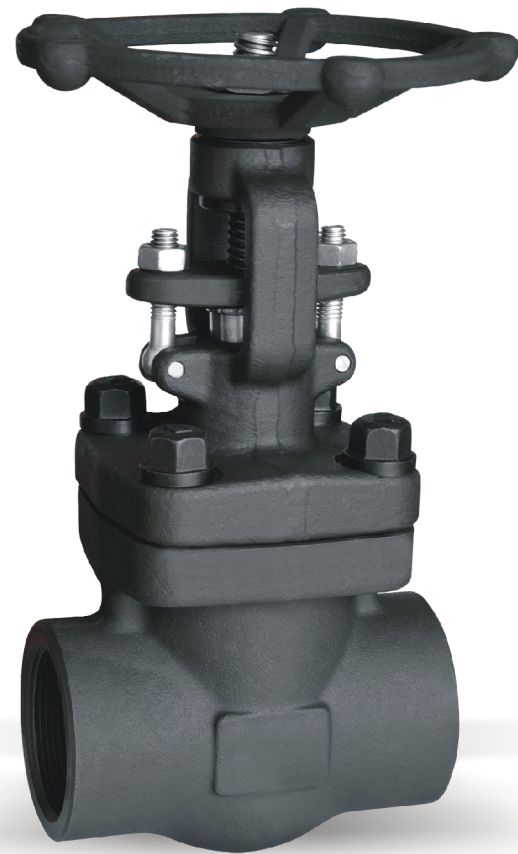
DIMENSIONAL DATA'S OF ANSI CLASS 600 LB											
NPS	2	2½	3	4	6	8	10	12			in
DN	50	65	80	100	150	200	250	300			mm
L/L1 (RF/BW)	11.5	13	14	17	22	26	31	33			in
	292	330	356	432	559	660	787	838			mm
L2 (RTJ)	11.6	13.1	14.1	17.1	22.13	26.1	31.1	33.11			in
	295	333	359	435	562	663	790	841			mm
Wt	28	28	65	125	240	475	730	1115			kg.

DIMENSIONAL DATA'S OF ANSI CLASS 900 LB											
NPS	2	2½	3	4	6	8	10	12			in
DN	50	65	80	100	150	200	250	300			mm
L/L1 (RF/BW)	14.5	16.5	15	18	24	29	33	38			in
	368	419	381	457	610	737	838	965			mm
L2 (RTJ)	14.6	16.6	15.11	18.1	24.13	29.13	33.11	38.11			in
	371	422	384	460	613	740	841	968			mm
Wt	87	87	130	185	440	880	1300	2150			kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB											
NPS	2	2½	3	4	6	8	10	12			in
DN	50	65	80	100	150	200	250	300			mm
L/L1 (RF/BW)	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5			in
	368	419	470	546	705	832	991	1130			mm
L2 (RTJ)	14.6	16.6	18.63	21.6	28	33.11	39.13	44.63			in
	371	422	473	549	711	841	994	1133			mm
Wt	55	55	186	270	750	1170	1750	2750			kg.

DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB											
NPS	2	2½	3	4	6	8	10	12			in
DN	50	65	80	100	150	200	250	300			mm
L/L1 (RF/BW)	17.7	20	22.75	26.5	36	40.2	50	56			in
	451	508	578	673	914	1022	1270	1422			mm
L2 (RTJ)	17.88	20.25	23	26.8	36.5	40.87	50.88	56.88			in
	454	514	584	683	927	1038	1292	1445			mm
Wt	75	75	425	585	1250	1800	2550	3320			kg.

# FORGED GATE VALVE



### Specifications

- Steel Gate Valves API602
- Steel Valves ASME B16.34
- Face To Face, Manufacturer Standard
- Face To Face, Flanges, ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Socket-welding Ends, ASME B16.11
- Screwed Ends ASME B1.20.1
- Inspection And Test API 598

### Design Features

- Outside Screw And Yoke (OS&Y)
- Bolted Bonnet
- Choice Of WB, Welded Bonnet
- Single Wedge, Fully Guided
- Renewable Seat Rings
- Yoke Integral With Bonnet
- Rising Stem And Non-rising Hand Wheel
- SW, Screwed Ends
- BW, Butt Welding Ends
- Flanged Ends

### Design Features

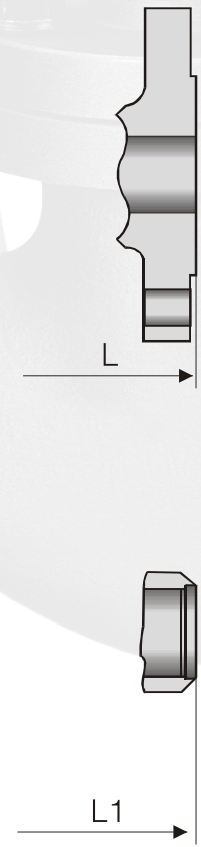
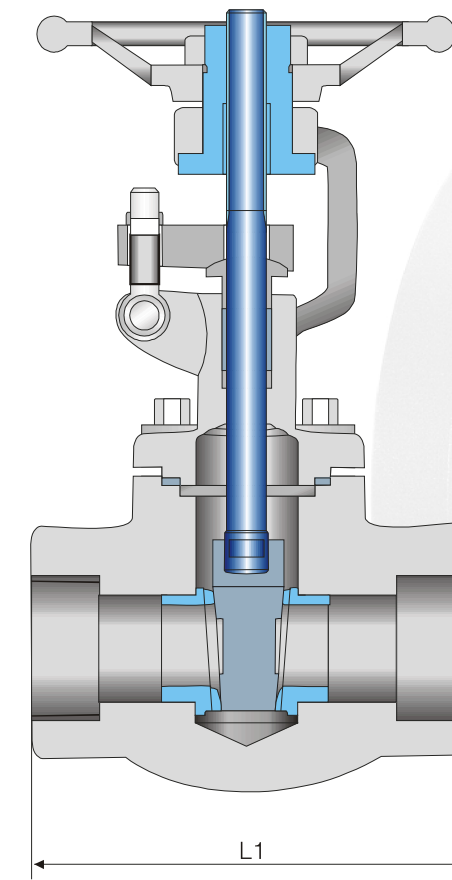
- Threaded-in Welded Bonnet
- Two Piece Stem Drive Renewable in Line
- Body Guided Disc
- Extended Bonnet
- Fugitive Emission Type Tested

### End Configuration

- Threaded • Socket Weld
- Socket Weld Inlet x Threaded Outlet
- Threaded Inlet x Socket Weld Outlet
- Plain End • Flanged Raised Face
- Flanged Ring Type Joint
- Flat Face Finish • Smooth Face Finish
- Extended End Connection

### Service Requirements

- Nace
- Oxygen Service
- Hydrogen Service
- Cryogenic Service



DIMENSIONAL DATA'S OF ANSI CLASS 800 LB							
NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	50	mm
L (SW)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
LI (THD)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
Wt	1.6	1.9	3.1	6.3	6.1	9.8	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB							
NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	-	mm
L (SW)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
LI (THD)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
Wt	2.2	3.6	7.3	7.0	11.3	-	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB							
NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	-	-	-	mm
L (SW)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
LI (THD)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
Wt	4.1	8.4	13	-	-	-	kg.

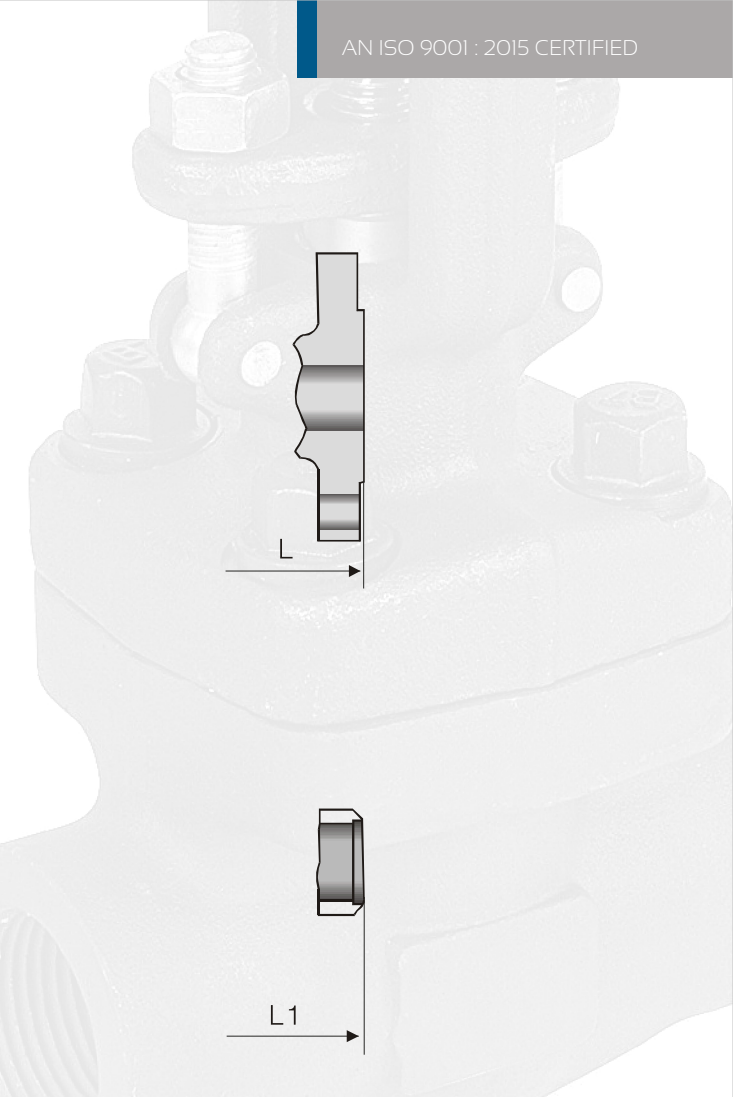
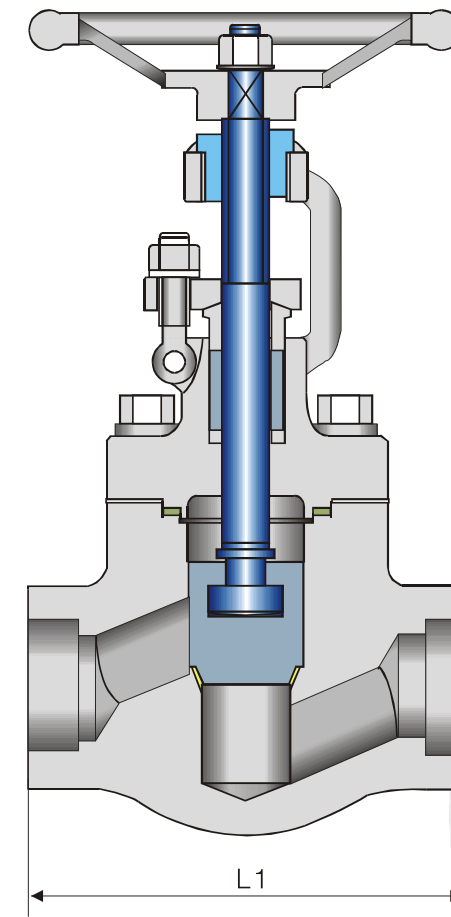
# FORGED GLOBE VALVE

### Specifications

- Steel Globe Valves API602
- Steel Globe Valves B16.34
- Face To Face, Manufacturer Standard
- Face To Face, Flanges, ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Socket-welding Ends, ASME B16.11
- Screwed Ends ASME B1.20.1
- Inspection And Test API 598

### Design Features

- Outside Screw and Yoke (OS & Y)
- Bolted Bonnet
- Choice of WB, Welded Bonnet
- Loose Disc, Choice Of Plug or Ball
- Yoke Integral With Bonnet
- Rising Stem And Hand Wheel
- Horizontal Service
- SW, Socket-welding Ends
- SC, Screwed Ends
- BW, Butt Welding Ends



### Design Features

- Threaded-in Welded Bonnet
- Two Piece Stem Drive Renewable in Line
- Body Guided Disc
- Extended Bonnet
- Fugitive Emission Type Tested

### End Configuration

- Threaded • Socket Weld
- Socket Weld Inlet x Threaded Outlet
- Threaded Inlet x Socket Weld Outlet
- Plain End • Flanged Raised Face
- Flanged Ring Type Joint
- Flat Face Finish • Smooth Face Finish
- Extended End Connection

### Service Requirements

- Nace
- Oxygen Service
- Hydrogen Service
- Cryogenic Service

DIMENSIONAL DATA'S OF ANSI CLASS 800 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	50	mm
L (SW)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
LI (THD)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
Wt	1.6	1.9	3.0	6.5	6.3	10.1	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	-	mm
L (SW)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
LI (THD)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
Wt	2.2	3.5	7.5	7.3	11.6	-	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	-	-	-	mm
L (SW)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
LI (THD)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
Wt	4.0	8.6	13.3	-	-	-	kg.

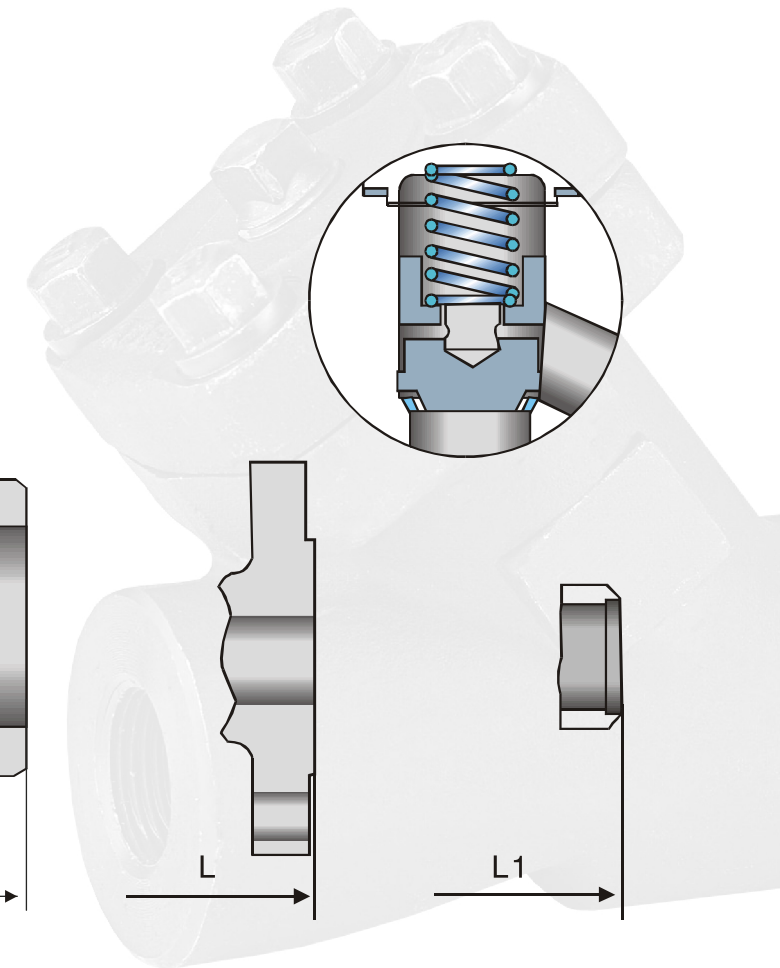
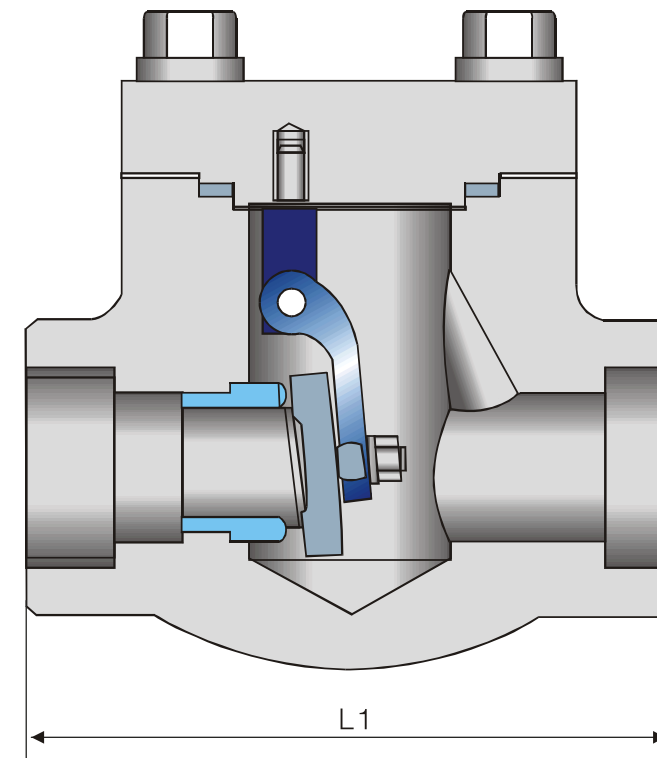
# FORGED CHECK VALVE

## Specifications

- Steel Check Valves API602
- Steel Valves ASME B16.34
- Face To Face, Manufacturer Standard
- Face To Face, Flanges, ASME B16.10
- End Flanges ASME B16.5
- Butt Welding Ends ASME B16.25
- Socket-welding Ends, ASME B16.11
- Screwed Ends ASME B1.20.1
- Inspection And Test API 598

## Design Features

- Bolted Cover
- Choice Of WB, Welded Cover
- Seat Rings Type
- Seat Rings Integral With Body Of Lift
- Horizontal Or Vertical Service
- SW, Socket-welding Ends
- SC, Screwed Ends
- BW, Butt Welding Ends
- Flanged Ends



## Design Features

- Threaded-in Welded Bonnet
- Two Piece Stem Drive Renewable in Line
- Body Guided Disc
- Extended Bonnet
- Fugitive Emission Type Tested

## End Configuration

- Threaded • Socket Weld
- Socket Weld Inlet x Threaded Outlet
- Threaded Inlet x Socket Weld Outlet
- Plain End • Flanged Raised Face
- Flanged Ring Type Joint
- Flat Face Finish • Smooth Face Finish
- Extended End Connection

## Service Requirements

- Nace
- Oxygen Service
- Hydrogen Service
- Cryogenic Service

DIMENSIONAL DATA'S OF ANSI CLASS 800 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	50	mm
L (SW)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
LI (THD)	3.42	3.62	4.17	5	5	5.6	in
	87	92	106	127	127	142	mm
Wt	1.0	1.3	2.2	4.9	4.7	8.2	kg.

DIMENSIONAL DATA'S OF ANSI CLASS 1500 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	32	40	-	mm
L (SW)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
LI (THD)	3.62	4.17	5	5.6	5.6	-	in
	92	106	127	142	142	-	mm
Wt	1.5	2.5	5.6	5.4	9.4	-	kg.

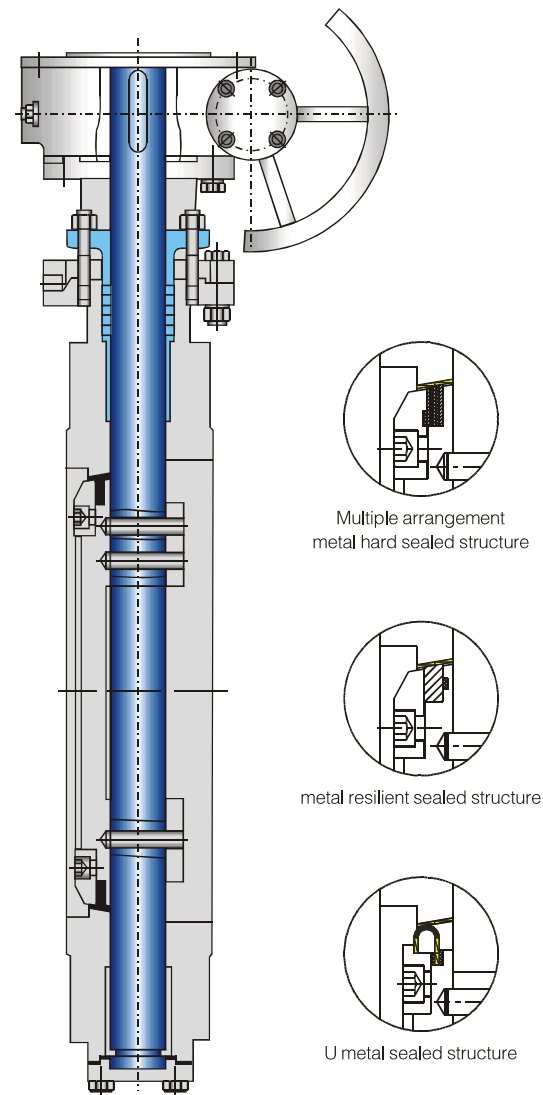
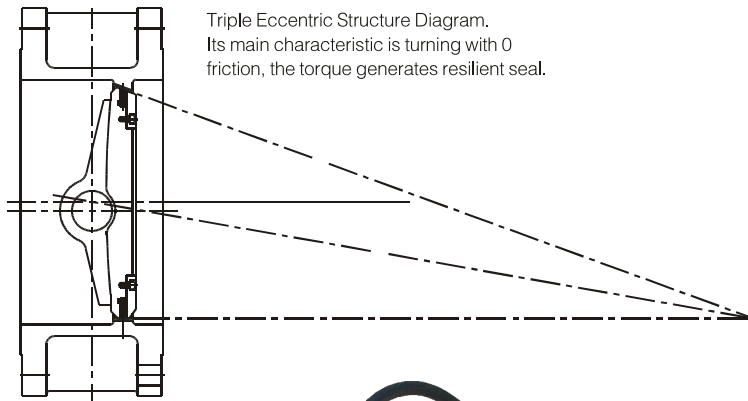
DIMENSIONAL DATA'S OF ANSI CLASS 2500 LB

NPS	1/2	3/4	1	1 1/4	1 1/2	2	in
DN	15	20	25	-	-	-	mm
L (SW)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
LI (THD)	4.17	5	5.6	-	-	-	in
	106	127	142	-	-	-	mm
Wt	2.9	6.4	10.8	-	-	-	kg.

# BUTTERFLY VALVE

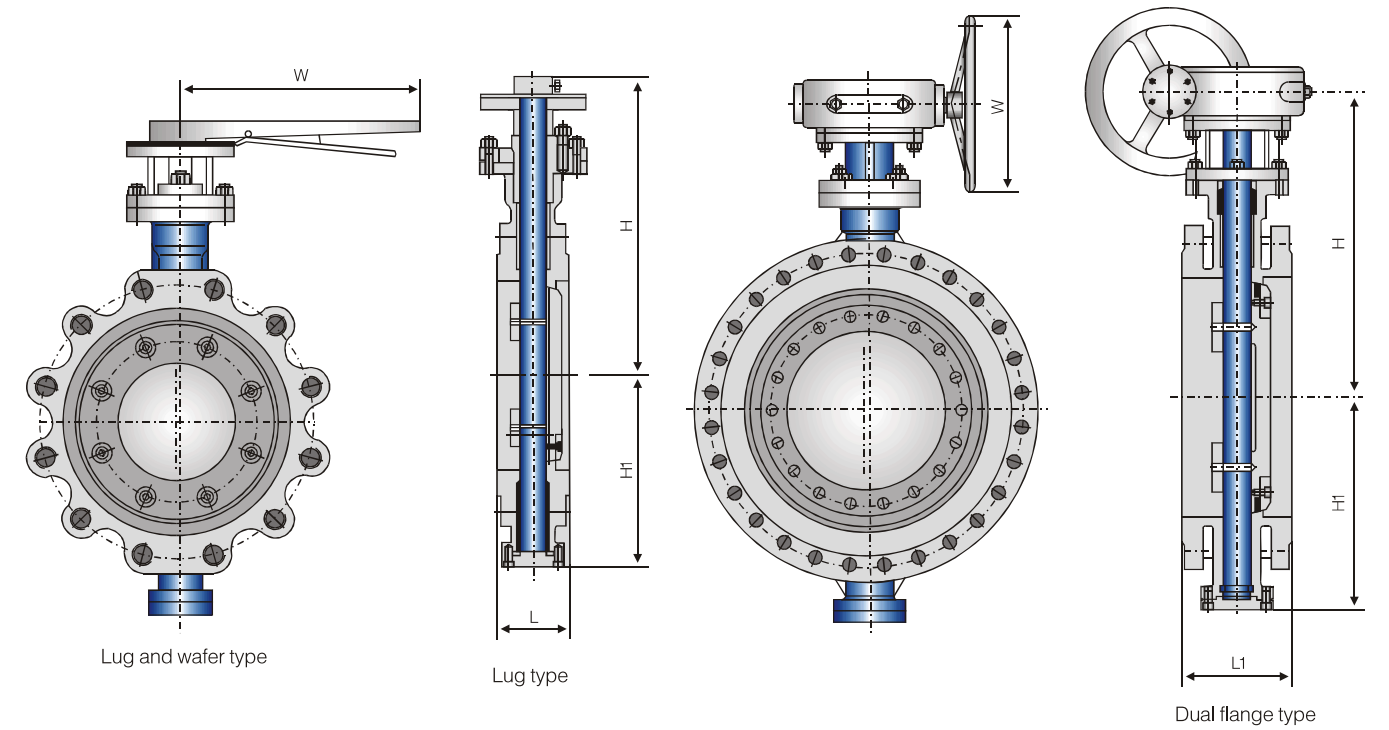
## Specifications

- Design & Manufacture Conform With : API609, MSS SP 67
- Connection Dimension Conforms With : ASME B16 5, ASME B16 47
- Structure & Length Conforms With : API 609, MSS SP 67, ISO 5752
- Inspection & Test Conforms With : ISO 5208, API 598



## Features and Application

Three eccentric butterfly valve series is the newly developed long life and energy saving products .The sealing is metal to metal ,which could be changed to be seal ring to metal ,stainless steel plate and composite graphite to metal .Under the working condition of high temperature and high pressure ,it still has a stable sealing performance .Our company adopts optimization design and new technology ,so that the torque is small ,gaining the point of energy saving ,labor saving and reliable sealing performance ,thus to ensure the high reliability of corrosion resistance ,stand fire and wear resistance .This product is widely used in petroleum ,natural gas ,piped gas and medicine ,food industry ,industrial environmental water treatment and shipping industry .



DIMENSIONAL DATA'S OF ANSI CLASS 150 LB																
NPS	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48
DN	50	80	100	150	200	250	300	-	400	450	500	600	750	900	1050	1200
L mm	43	48	54	57	64	71	81	92	102	114	127	154	165	200	251	276
L1 mm	108	114	127	140	152	165	178	190	216	222	229	267	318	330	410	470
H1 mm	112	126	146	170	218	245	290	316	352	386	415	482	622	673	755	866
H mm	225	255	285	332	386	427	498	510	450	585	642	693	868	1000	1058	1278
W mm	220	270	270	360	300	300	500	500	600	600	600	600	600	700	700	700
MT (Wafer) kg	10	12	16	25	36	60	80	120	160	200	270	420	700	1050	1500	1845
T Nm	55	226	325	615	902	1278	2628	3276	4128	5511	7190	7814	16450	23501	31963	47000

DIMENSIONAL DATA'S OF ANSI CLASS 300 LB																
NPS	-	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48
DN	50	80	100	150	200	250	300	-	400	450	500	600	750	900	1050	1200
L mm	-	48	54	59	73	83	92	117	133	149	159	181	-	-	-	-
L1 mm	-	114	127	140	152	165	178	190	216	222	229	267	318	330	410	470
H1 mm	-	130	150	185	236	273	313	338	392	420	465	532	642	703	785	906
H mm	-	265	290	355	418	465	498	547	582	651	704	780	908	1108	1258	1478
W mm	-	270	270	300	500	500	600	600	600	600	600	600	700	700	700	1000
MT (Wafer) kg	-	15	19	35	42	68	88	144	185	230	330	460	1280	2150	3150	4885
T Nm	3	352	514	1073	1954	2453	3260	5405	8152	10223	13469	22827	39726	63452	85326	126742

DIMENSIONAL DATA'S OF ANSI CLASS 600 LB										
NPS	3	4	6	8	10	12	14	16	18	24
DN	80	100	150	200	250	300	350	400	450	600
L mm	54	64	78	102	117	140	155	178	200	232
L1 mm	180	190	210	230	250	270	290	310	330	390
H1 mm	152	193	248	295	342	378	412	450	512	622
H mm	305	338	416	490	580	690	715	823	897	1186
W mm	270	360	500	600	600	600	600	600	600	700
MT (Wafer) kg	38	58	120	154	297	398	535	780	898	1622
T Nm	575	1043	3673	4520	7061	14236	16947	20473	25218	46095

# CORROSION DATA

CORROSIVE	C. S.	13% CR.	304	316	BRONZE	MONEL	INCONEL
Acetic Acid-Pure	C	A	B	A	C	A	B
Acetic Acid-10%	C	A	B	A	C	A	B
Acetic Anhydride	C	B	B	B	C	B	B
Alcohol methyl (Methanol)	B	A	A	A	B	A	A
Alcohol methyl 1500f	B	B	B	A	B	B	A
Ammonia - conc % Aq. Sol.	A	A	A	A	D	B	-
Ammonia - Gas	A	A	A	A	D	B	A
Ammonium Chloride - still	D	C	B	A	D	A	A
Ammonium Sulphate 1% & 5% Agit. & Aer.	C	C	B	A	C	B	C
Ammonium - Saturated	C	C	C	A	C	B	A
Amyl Acetate	C	C	B	B	B	B	A
Aniline	C	C	B	B	C	B	C
Arsenic Acid - 1500F	D	C	B	B	D	D	B
Asphalt	B	A	A	A	A	A	A
Barium Chloride - sat.	C	C	A	A	B	B	A
Barium - Aqueous sol.	C	C	B	A	C	B	A
Benzoic Acid	D	C	A	A	B	B	A
Benzol	B	A	A	A	A	A	-
Boric Acid	D	B	A	A	B	A	A
Butane Gas	B	B	B	B	A	B	-
Butyric Acid	D	A	A	A	C	B	A
Calcium Bisulphate	D	C	B	A	D	D	-
Calcium carbonate	D	C	B	A	C	A	-
Calcium chloride.	C	C	C	B	B	A	A
Calcium hydrochlorite	D	D	C	C	D	D	B
Carbon tetra chloride	B	A	A	A	B	B	A
Carbonic acid	D	C	B	A	D	A	A
Chlorine - dry Gas	B	B	B	B	C	B	A
Chlorine - moist	D	D	D	D	D	C	A
Chromic acid	C	C	B	A	D	B	C
Critic acid -5% - still	D	A	A	A	C	A	B
Critic acid -sat.	D	B	B	A	C	A	A
Copper nitrate	D	A	A	A	D	C	C
Copper sulphate	D	A	A	A	D	B	C
Creosote - crude	A	A	A	A	C	A	A
Dowtherms	B	A	A	A	A	A	-
Ethers	A	B	A	A	B	D	A
Ethyl Alcohol	B	B	A	A	B	B	A
Ethylene Glycol	A	A	A	A	A	A	A
Ferric chloride	D	D	D	D	D	D	B
Ferric Sulphate	D	C	B	A	D	C	B
Ferrous chloride	D	D	D	D	D	D	C
Ferrous Sulphate	D	B	B	B	B	B	B
Fluorine	D	D	D	D	D	D	A
Formaldehyde- cold	A	A	A	A	A	A	A
Formic acid	D	C	C	A	B	B	A
Furfural	A	A	A	A	A	A	C
Gasoline sour	B	B	A	A	C	B	A
Gasoline refined	A	A	A	A	A	A	A
Gelatine	D	C	B	A	B	A	A
Glucose	B	B	A	B	A	A	-
Glue- dry	A	A	A	A	A	A	-
Glycerine	B	A	A	A	B	A	B
Hydrochloride acid (muriatic)	D	D	D	D	D	C	B
Hydrocyanic acid	C	D	A	D	D	B	C
Hydrofluoric acid	D	D	D	A	C	B	C
Hydrogen- Gas	B	A	A	A	B	A	-
Hydrogen peroxide	C	B	A	A	D	B	B
Hydrogen sulphate -wet	B	B	A	A	D	C	-
Iodine - dry -wet	C	B	A	A	D	D	A
Kerosene	D	D	D	D	D	D	A
Laquer solvents	B	A	A	A	A	A	-
Lactic acid- 1%	B	B	A	A	B	B	A
Lactic acid- 5%	D	B	A	A	D	B	A
Lactic acid- 5% - boiling	D	B	A	A	D	C	B
Lactic acid -10%- 1500F	D	D	A	B	D	C	B
Lactic acid - cone - 700F	D	D	B	C	D	D	B
Lime sulphur	D	D	B	C	D	D	-
Linseed oil	A	A	A	A	D	D	B
Lubricating oil - sour	A	B	B	B	B	B	-
Water (Fresh)	C	B	A	A	D	B	A
Water distilled (Labour grade)	C	A	A	A	A	C	A
Water Distilled (Return cond.)	D	D	A	A	C	A	B

CORROSIVE	C. S.	13% CR.	304	316	BRONZE	MONEL	INCONEL
Lubrication oil - Refined	A	A	A	A	B	B	-
Magnesium chloride	C	B	B	B	B	B	A
Magnesium Hydroxide	C	B	A	A	C	A	A
Magnesium Sulphate	B	C	B	B	B	B	B
Mercuric chloride	D	D	D	C	D	C	D
Mercury	A	A	A	A	D	B	A
Methane Gas	B	B	B	B	A	B	-
Methylethylketone	A	A	A	A	A	A	-
Milk (Fresh/Sour)	D	B	A	A	B	A	A
Naphta ( crude or pure)	B	B	A	A	B	B	A
Natural Gas	B	A	A	A	B	A	-
Nickle Chloride	D	C	B	B	D	B	B
Nickle sulphate	D	D	B	B	B	B	B
Nitric acid - crude	D	D	C	B	D	D	B
Nitric acid - 5% to 50%	D	A	A	A	D	D	D
Nitric acid - conc.700f	D	A	A	A	D	D	B
Nitric acid - conc. Boiling	D	D	C	B	D	D	D
Nitric acid - fuming conc. 1100f	D	B	A	A	D	D	B
Nitric acid - fuming conc. Boiling	D	D	D	D	D	D	D
Nitrobenzene	B	B	B	A	D	B	-
Oils - miner & veg.	B	B	A	A	B	B	A
Oxalic acid - 10% - 700F	D	D	D	C	B	D	A
Oxalic acid - 10% - Boiling	D	D	D	C	B	D	A
Oxygen	B	A	A	A	A	A	A
Petroleum oils - crude	B	A	A	A	C	A	-
Phosphoric acid - crude	C	D	D	D	D	D	A
Phosphoric acid - 5% & boiling	D	B	A	A	D	C	A
Phosphoric acid - 10% still	D	C	B	A	D	C	A
Phosphoric acid - 10% agitated	D	D	C	D	D	D	A
Phosphoric acid - 10% aer - boil	D	D	D	A	D	D	D
Picric acid	C	C	A	A	D	C	D
Potassium chloride	B	B	C	C	B	B	A
Potassium cyanide	B	B	A	A	D	B	-
Potassium Hydroxide - 5% - still	A	A	A	A	D	A	A
Potassium Hydroxide - 50% - boil	A	A	A	A	D	A	A
Potassium Nitrate	B	A	A	A	B	B	C
Propane Gas	B	A	A	A	A	A	A
Sea Water	D	D	B	A	B	A	B
Soap Solution	A	A	A	A	A	A	D
Sodium Bicarbonate	C	A	A	A	B	B	C
Sodium Bicarbonate - 5% +50%	B	A	A	A	B	B	C
Sodium chloride	C	C	B	A	B	A	A
Sodium cyanide	B	A	B	B	D	B	-
Sodium Hydroxide	C	C	B	A	B	A	A
Sodium Hypochlorite	D	D	C	B	D	C	C
Sodium Nitrate	B	B	B	A	B	B	A
Sodium Phosphate (di-basic)	C	C	B	B	C	B	A
Sodium Phosphate (Tri-basic)	B	C	B	B	D	B	-
Sodium Sulphate	B	B	B	A	B	A	B
Sodium Sulphide	B	B	B	A	D	A	D
Steam	A	A	A	A	C	A	A
Stearic acid - conc.	C	C	A	A	C	B	D
Sulphur - 5000F - Molten	C	B	A	A	D	B	C
Sulphur dioxide	B	B	A	A	B	A	B
Sulphuric acid - < 10%	D	D	C	B	C	A	B
Sulphuric acid - 50% + 700F	B	B	A	A	A	A	B
Sulphuric acid - 50% - boil	D	D	D	D	D	C	C
Sulphuric acid - conc. 700F	B	B	A	A	A	A	D
Sulphuric acid - 3000F	D	D	D	D	C	C	-
Sulphuric acid - Fuming	D	D	C	B	C	C	D
Sulphuric acid - sat.	D	D	C	B	C	C	D
Sulphuric acid - spray	D	D	C	C	D	D	-
Tannic acid - 10%	C	C	A	A	B	B	B
Tannic acid - 10% - Boil	D	D	C	C	C	C	B
Tar	A	A	A	A	A	A	A
Tannic acid - 700F	D	C	A	A	B	A	B
Tannic acid - 1500F	D	D	B	A	B	B	-
Trichloroethylene	C	C	B	B	B	A	B
Turpentine	B	B	A	A	B	A	E
Tomato Juice	C	B	A	A	C	A	-
Vinegar	D	A	A	A	B	A	A
Zinc chloride	D	C	D	D	D	B	B
Zinc Sulphate	D	C	B	B	B	B	B

A : Good Resistance | B : Satisfactory | C : Poor | D : Not Recommend

# OTHER PRODUCTS

