

Dervos is dedicated ‘to keep up with advanced technology in valve industry’ .

With mature management system and market-oriented business concept, the company is making continuous efforts in technology innovation and providing considerate service to our customers.

Dervos will stick to the goal of ‘keeping step with the whole industry line’ and make improvement to meet all kinds of requirement from our clients.



#### **Dervos America Corp.**

Central Offices

19790 W Dixie Hwy 11th #1131, Miami, 33180, FL, USA.

[contact@dervosamerica.com](mailto:contact@dervosamerica.com)

[www.dervosamerica.com](http://www.dervosamerica.com)

Logistic and Warehouse

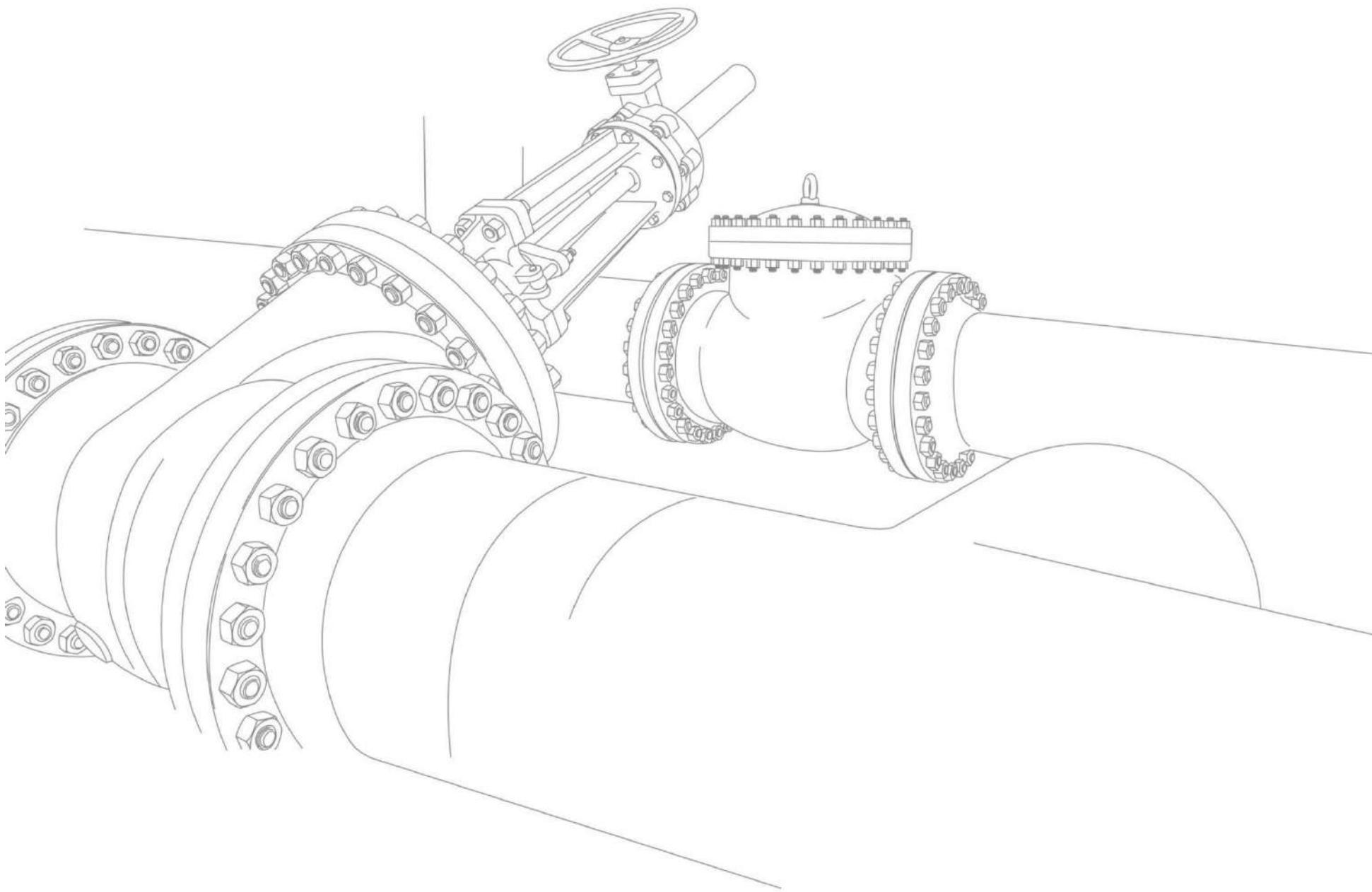
3500 NW 114Th Ave, Doral, 33178, FL, USA.



## **Product catalog**

### **Dervos America Corp.**





## Brief Introduction

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### ABOUT OUR COMPANY

Dervos America, an United States company, is the result of more than 20 years of experience of their founders always dedicated to the design, manufacture and commercialization world wide of Gates, Ball, Swing check and Globe valves. Our mission is to provide to our clients the best quality valves in an automated and efficient process of procurement. We focus on our clients buying experience, to bring a modern and novel process of purchase. Our objective is to offer a smooth, time efficiency and highly customizable experience, taking care of all the international standard of manufacture, testing, marking and delivery, and also any special specification our client may need. We know your time is the more valuable asset we must take care off. In this opportunity we contribute all our acquired knowledge, in international supply chain, stock productions in advance, and delivery methods, which will give you the peace of mind of acquiring international quality products. When you require it. Our vision is to focus our all our process taking special care in environmentally footprint, always advancing in our processes and to provide the best experience to our clients making Dervos America the new company standard for industrial Valves.

### ABOUT OUR PRODUCT

All our lines of product are Fire Safe and low emissions certified internationally. Our line of API6D manufacture is certified by API international. We cover all construction material available from international standard such as ASTM. We can satisfy all the requirements of the chemical, petrochemical and power plants, oil and gas, off-Shore & on-Shore, refining, ship building, water treatment and energy generation needs. We maintain a large valves stock available of standard products that you can count if you need a speed delivery process. Our range is our strength, covering from 2" up to 60" from ANSI class 150 to 2500.

### ABOUT OUR SALES TEAM

In Dervos America, you will find people you can talk to, you can track your order in all the steps automatically, if you choose so our staff can manage all levels of engineering and technical details you may need.. We can adjust our product to your special needs, and we are prepared to do it. All our staff are trained accordingly to give you the best face to face experience. We put highly trained personnel at your disposal if our automatic purchase process needs adjustments for your convenience.

## Product Series

On the way of development,  
Dervos is dedicated "to keep up with advanced  
technology in valve industry".  
With mature management system and  
market-oriented business concept,  
the company is making continuous efforts in technology  
innovation and providing considerate  
service to our customers.

### Petrochemical Industry

DERVOS provides high quality valves for petrochemical industry:  
mainly stainless steel Gate,  
Globe and Check valves.



### Oil and Gas Industry

DERVOS provides high quality valves for Oil and Gas Industry:  
Gate, Globe, Check and plug  
valves in accordance with API,  
ASME, ASTM, DIN, EN standards.



### Pipeline Industry

DERVOS also provides valves  
for long distance pipeline  
industry, mainly Check Valves,  
Through Conduit Gate  
valves and Ball valves.



### Power Generation Industry

DERVOS supplies valves that  
satisfy the quality requirements  
for power generation industry.  
Products include high temperature  
and pressure Gate, Globe, Check  
and Safety valves for power station,  
as well as low pressure Butterfly,  
Gate valves for draining etc.



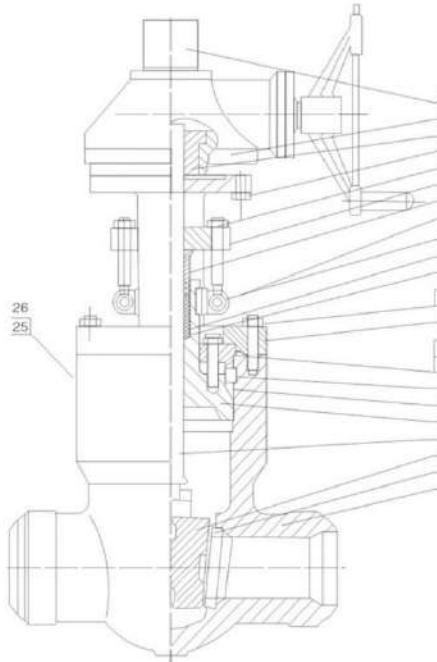
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## PRIMARY PRODUCT

### Pressure Seal Gate Valve Class 900-2500

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



Size Range: 1-22"

Seating Code	Body Seat Surface Part No.2	Wedge Seat Surface Part No.3	Stem Part No.4	Backseat Surface Stuffing Box Part No.5
1	F6	F6	F6	F6
2	F304	F304	F304	F304
5	Stellite	Stellite	F6	F6
8	Stellite	F6	F6	F6
9	Monel	Monel	Monel	Monel
10	F316	F316	F316	F316
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20

#### Standard Material Specifications

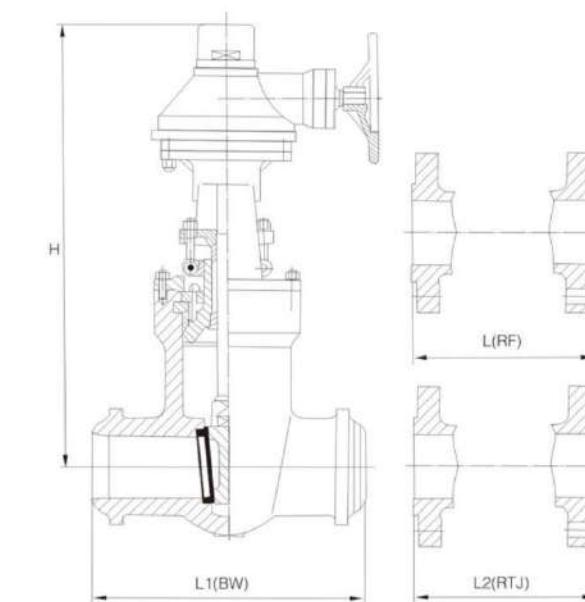
Part Name	WCB	WC6	WC9	C5	CF8	CF8M
1 Body	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
2 Seat	A182 F6a	A182 F22	A182 F22	A182 F5	A182 F304	A182 F316
3 Disc	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 Cf8	A351 CF8M
4 Stem	A182 F6a		SAEHNV3		A182 F304	A182 F316
5 Stuffing Box	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
6 Seal Ring	AISI 316L		Flexible Graphite+316			
7 Split Ring	Steel	F6	F6	F6	F304	F316
8 Back Ring	Steel	Steel	Steel	Steel	S.S	S. S
9 Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
10 Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 Gr.8	A194 Gr.8
11 Yoke	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
12 Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
13 Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 Gr.8	A194 Gr.8
14 Packing Plate	AISI410	AISI 410	AISI 410	AISI 410	AISI 304	AISI 316
15 Packing			Flexible Graphite(Braided and Ring) or PTFE			
16 Split Pin	Steel	Steel	Steel	Steel	Steel	Steel
17 Eyebolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
18 Gland	A182 F6	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316
19 Gland Flange	A105	A105	A105	A105	A182 F304	A182 F316
20 Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 Gr.8	A194 Gr.8
21 Stud	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7
22 Stem Nut		Ni-resist A439-D2				
23 Gear Box		Purchased				
24 Protector		Steel				
25 Nameplate		AISI 304				
26 Rivet		AISI 304				

Other materials are available on request.

## PRIMARY PRODUCT

### Pressure Seal Gate Valve Class 900-2500

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



OS & Y, Rising Stem, Flexible Solid Wedge.  
Welded-in or Threaded Seat Ring

#### STANDARDS COMPLIANCE:

Basic Design: ANSI B 16.34

Face to Face Dimension: ANSI B16.10

End to End Dimension: ANSI B16.10

End Flanges ANSI B16.5

B. W. Ends ANSI B 16.25

#### Test Pressure to API 598

Class	Test Pressure		
	Shell Test (Hydro.)	Seat Test (Hydro)	Seat Test (Air)
900	3350psig	2442psig	80psig
1500	5626psig	4078psig	80psig
2500	9275psig	6787psig	80psig

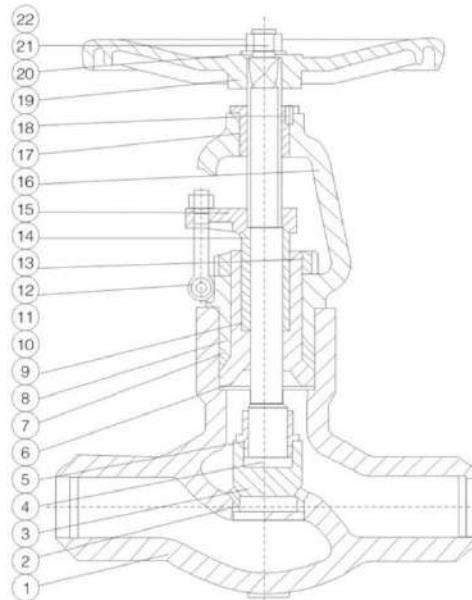
#### Dimensions(mm) and Weights(kg)

NPS DN	Class	2	2-1/2	3	4	6	8	10	12	14	16	18	20	22
		50	65	80	100	150	200	250	300	350	400	450	500	600
L(RF)	900LB	368	419	381	457	610	737	838	965	1029	1130			
	1500LB	368	419	470	546	705	832	991	1130	1257	1384			
	2500LB	451	508	578	673	917	1022	1270						
L1(BW)	900LB	216	254	305	355	508	660	787	914	991	1092			
	1500LB	216	254	305	406	559	711	864	991	1067	1194	1346	1473	1600
	2500LB	279	330	368	457	610	762	914	1041	1118	1245	1397		
L2(RTJ)	900LB	371	422	384	460	613	740	841	968	1038	1140			
	1500LB	371	422	473	549	711	841	1000	1146	1276	1407			
	2500LB	454	514	584	683	927	1038	1292						
H(Open)	900LB	554	637	680	796	1084	1372	1494	1550	1960	2210			
	1500LB	554	637	767	875	1094	1372	1655	1834	2150	2260	2460	2721	2940
	2500LB	610	654	753	850	1254	1374	1685	1894	2226	2382	2585		
W	900LB	300	350	350	400	560	460*	610*	610*	760*				
	1500LB	300	450	450	560	305*	460*	610*	610*	760*				
	2500LB	500	500	600	600	460*	460*	610*						
RF	900LB	50	84	92	154	341	622	950	1295	1720	2380			
	1500LB	60	91	128	182	394	795	1370	2120	2800	3870			
	2500LB	121	175	195	229	720	1295	2250						
BW	900LB	39	64	82	120	266	524	760	1090	1450	2018			
	1500LB	46	71	85	130	292	587	974	1615	2010	2815	3315	4150	5219
	2500LB	88	135</td											

## PRIMARY PRODUCT

### Pressure Seal Globe Valve Class 900-2500

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



Size Range: 1-20"  
Trim Material To API 600

Seating Code	Body Seat Surface Part No.2	Wedge Seat Surface Part No.3	Stem Part No.4	Backseat Surface Stuffing Box Part No.5
1	F6	F6	F6	F6
2	F304	F304	F304	F304
5	Stellite	Stellite	F6	F6
8	Stellite	F6	F6	F6
9	Monel	Monel	Monel	Monel
10	F316	F316	F316	F316
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20

#### Standard Material Specifications

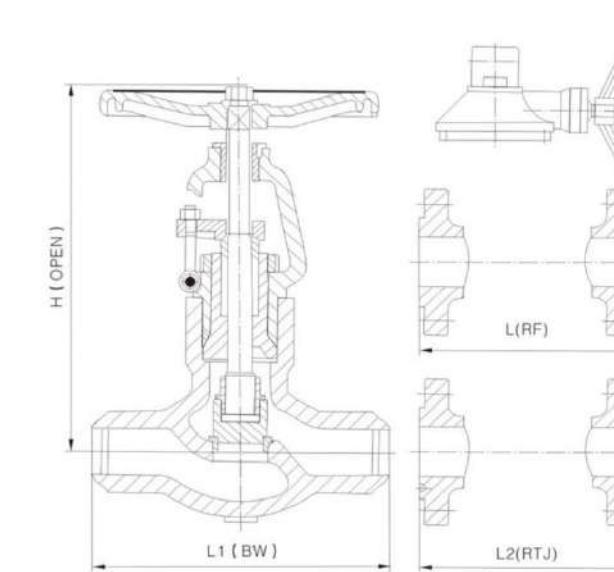
No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM		Stainless Steel to ASTM						
		WCB	WC6	WC9	C5	CF8	CF8M	CF3				
1	Body	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3				
2	Seat Ring	A105	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L				
3	Disc	A105	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L				
4	Stem	A182 F6	A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L				
5	Disc Nut	A182 F6	A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L				
6	Cap	SS Spiral Wound/graogute or SS Spiral Wound/PTFE										
7	Body Seal	Flexible Graphite+316										
8	Adjustment Gasket	F6	F6		F316							
9	Stem Packing											
10	Gland Nut	A194 2H			A194 8							
11	Gland Eyebolt	A194 B7			A193 B8							
12	Pin	Carbon steel or Stainless Steel										
13	Cap Nut	Carbon steel or Stainless Steel										
14	Gland	A182 F6		A182 F304	A182 F316	A182 F304L	A182 F316L					
15	Gland Flange	A216 WCB		A351 CF8								
16	Yoke	A216 WCB		A351 CF8								
17	Stem Nut	A439 D2 or B148-952A										
18	Screw	Carbon steel										
19	Handwheel	Ductile Iron or carbon steel										
20	Name Plate	Stainless steel or Aluminum										
21	Washer	Carbon steel										
22	Nut	Carbon steel or Stainless steel										

Other materials are available on request.

## PRIMARY PRODUCT

### Pressure Seal Globe Valve Class 900-2500

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



OS & Y, Rising Stem, Plug Type Disc  
Threaded Seat Ring

#### STANDARDS COMPLIANCE:

Basic Design: ANSI B 16.34  
Face to Face Dimension: ANSI B16.10  
End to End Dimension: ANSI B16.10  
Flanged Ends to ANSI B16.5  
B. W. Ends to ANSI B16.25

#### Test Pressure to API 598

Class	Test Pressure		
	Shell Test (Hydro.)	Seat Test (Hydro)	Seat Test (Air)
900	3350psig	2442psig	80psig
1500	5626psig	4078psig	80psig
2500	9275psig	6787psig	80psig

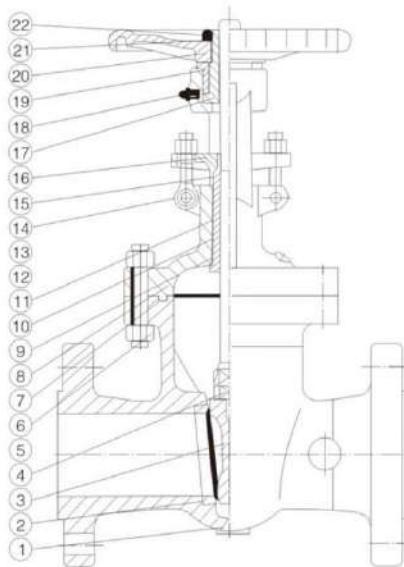
#### Dimensions(mm) and Weights(kg)

NPS DN	Class	2	2-1/2	3	4	6	8
		50	65	80	100	150	200
L(RF) L1(BW)	900LB	368	419	381	457	610	737
	1500LB	368	419	470	546	705	832
	2500LB	451	508	578	673	914	1022
L2(RTJ)	900LB	371	422	384	460	613	740
	1500LB	371	422	473	549	711	841
	2500LB	454	514	584	683	927	1038
H(Open)	900LB	550	605	678	798	930	1260
	1500LB	550	605	866	956	1260	1263
	2500LB	560	720	755	1230	1791	2086
W	900LB	350	350	400	450	458	610*
	1500LB	400	400	450	560	610*	610*
	2500LB	400	450	560	310*	610*	760*
RF	900LB	78	108	102	142	400	960
	1500LB	85	110	135	230	660	1590
	2500LB	140	168	247	620	1500	3200
BW	900LB	66	91	87	128	355	868
	1500LB	77	101	122	209	595	1440
	2500LB	100	118	180	438	1148	2594

Manual gear operator is recommended.

## Gate Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



OS & Y, Rising Stem, Flexible Solid Wedge  
Bolted Bonnet, Threaded or Welded Seat Ring  
Non-Rising Gate Valve

### STANDARDS COMPLIANCE:

Basic Design: API600, BS1414  
Face to Face Dimension: ANSI B16.10  
End to End Dimension: ANSI B16.10  
End Flange Dimension: 2"-24" to ANSI B16.5, 26"-60" to MSS SP-44, to ANSI B16.47-A on request  
B. W. Ends to ANSI B16.25  
Manufacturing to NACE MR-01-75 on request

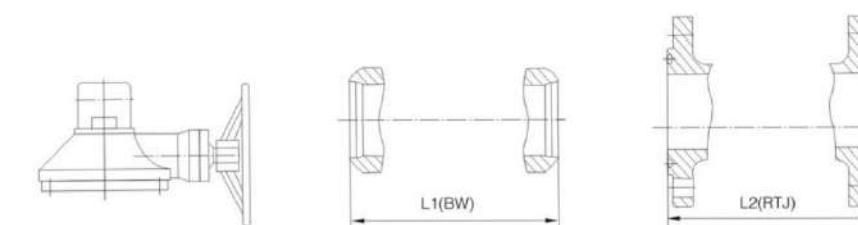
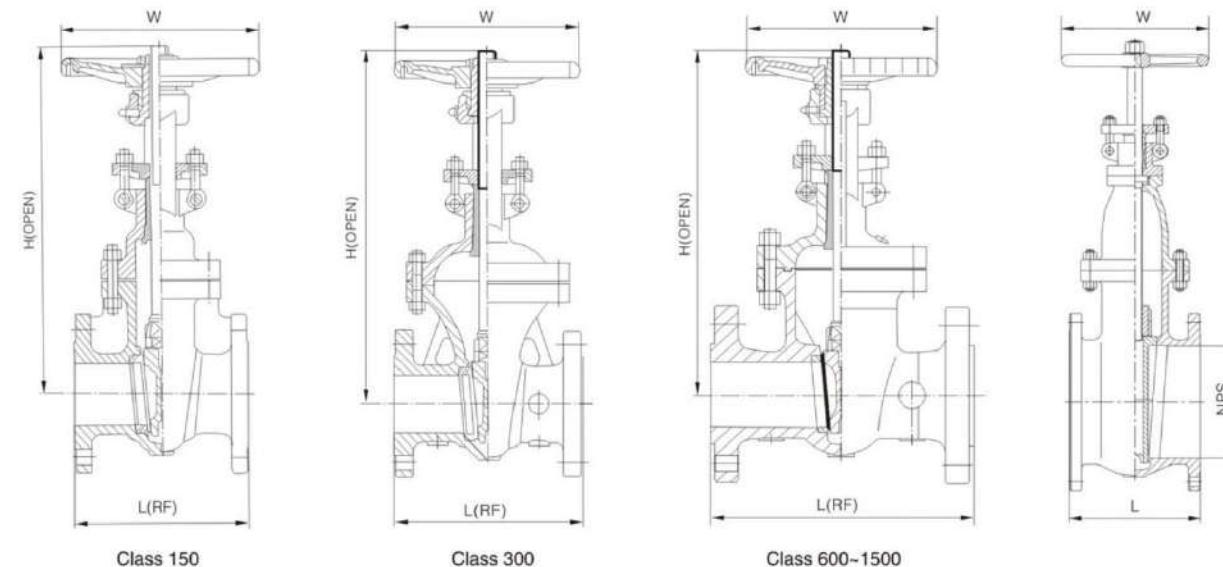
### Standard Material Specifications

No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM			Stain Steel to ASTM							
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M				
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M				
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L				
3	Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M				
4	Stem	A182 F6	A182 F6	A182 F304			A182 F304	A182 F316	A182 F304L	A182 F316L				
5	Bonnet nut	A194 2H	A194 4	A194 7		A194 8								
6	Bonnet bolt	A193 B7	A320 L7	A193 B16			A193 B8							
7	Gasket	SS Spiral Wound/graphite or SS Spiral Wound/PTFE												
8	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M				
9	Backseat bushing	A182 F6	A182 F6	A182 F304			A182 F304	A182 F316	A182 F304L	A182 F316L				
10	Stem packing	Graphite or PTFE												
11	Lantern	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L				
12	Gland Nut	A194 2H					A194 8							
13	Gland Eyebolt	A194 B7					A193 B8							
14	PIN	Carbon steel or Stainless Steel												
15	Gland	A182 F6				A182 F304	A182 F316	A182 F304L	A182 F316L					
16	Gland Flange	A216 WCB					A351 CF8							
17	Stem Nut	A439 D2 or B148-952A												
18	Nipple	Carbon steel or Stainless Steel												
19	Retaining Nut	Carbon steel												
20	Hand Wheel	Ductile Iron or carbon steel												
21	Name Plate	Stainless steel or Aluminum												
22	H. W. Lock NUT	Carbon steel												

Other materials (Alloy 20, AISI321, AISI347, Monel, Hastelloy, etc) are available on request  
Class 150 gate valve is not provided with Lantern

## Gate Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



### Test Pressure to API598

Class	Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
150	WCB	450psi	315psi	80psi
	WC6	450psi	319psi	
	CF8M	425psi	303psi	
300	WCB	1125psi	814psi	80psi
	WC6	1125psi	825psi	
	CF8M	1100psi	792psi	
600	WCB	2225psi	1628psi	80psi
	WC6	2250psi	1650psi	
	CF8M	2175psi	1548psi	
900	WCB	3350psi	2442psi	80psi
	WC6	3375psi	2475psi	
	CF8M	3250psi	2376psi	
1500	WCB	5575psi	4078psi	80psi
	WC6	5625psi	4125psi	
	CF8M	5400psi	3960psi	

## Gate Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### Dimensions and Weights

Class 150																							
NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36	40	42	48	60
DN	mm	50	60	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1050	1200	1500
L	in	7	7-1/2	8	9	10	10-1/2	11-1/2	13	14	15	16	17	18	20	24	26	28	-	-	-	-	-
(RF)	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	660	711	813	813	1067	-
L1	in	8-1/2	9-1/2	11-1/8	12	15	15-7/8	16-1/2	18	19-3/4	22-1/2	24	26	28	32	36	38	40	-	-	-	-	-
(BW)	mm	216	241	283	305	381	403	419	457	502	572	610	660	711	813	914	914	965	1016	1067	1143	1371	-
L2	in	7-1/2	8	8-1/2	9-1/2	10-1/2	11	12	13-1/2	14-1/2	15-1/2	16-1/2	17-1/2	18-1/2	20-1/2	24-1/2	24-1/2	26-1/2	28-1/2	-	-	-	-
(RTJ)	mm	191	203	216	241	267	279	305	343	368	394	419	445	470	521	622	622	673	724	-	-	-	-
H	in	16-1/8	18-9/16	20-15/16	24-1/8	27-15/16	31-3/4	39	46-11/16	55-5/16	63-9/16	71-5/16	78-3/16	87	106-1/4	119-5/16	130-9/16	137-1/4	150-9/16	-	-	-	-
(OPEN)	mm	409	472	532	612	710	806	990	1186	1405	1615	1811	1986	2210	2698	3030	3317	3487	3825	-	-	-	-
W	in	7-7/8	7-7/8	9-7/8	9-7/8	11-13/16	11-13/16	13-3/4	17-11/16	19-11/16	18-1/8	18-1/8	18-1/8	24	24	24	24	30	-	-	-	-	-
	mm	200	200	250	250	300	300	350	450	500	160*	460*	460*	610*	610*	610*	610*	760*	-	-	-	-	-
WT	RF	20	30	36	53	71	85	136	220	323	387	553	660	810	1250	1931	2380	2490	3600	4520	4950	6300	-
(kg)	BW	17	26	29	46	66	77	116	202	294	350	506	575	720	1130	1765	2028	2280	3080	-	-	-	-

\*Manual gear operator is recommended

### Class 300

NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	32	36	40	42	48		
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	800	900	1000	1050	1200		
L-L1	in	8-1/2	9-1/2	11-1/8	12	15	15-7/8	16-1/2	18	19-3/4	30	33	36	39	45	55	-	-	-	-	-	-	
(RF-BW)	mm	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1397	1524	1727	1955	2032	2286	-	
L2	in	9-1/8	10-1/8	11-3/4	12-5/8	15-5/8	16-1/2	17-1/8	18-5/8	20-3/8	30-5/8	33-5/8	36-5/8	39-3/4	45-7/8	56	-	-	-	-	-	-	
(RTJ)	mm	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165	1422	1553	1756	-	-	-	-	-
H	in	15-3/4	18-3/4	21-3/8	25-5/8	30-5/16	34-5/8	40-13/16	50-3/16	56-5/8	65	72-7/16	79-15/16	88-3/16	114-3/16	139-3/8	-	-	-	-	-	-	
(OPEN)	mm	400	477	543	650	770	880	1037	1275	1438	1650	1840	2030	2240	2900	3540	-	-	-	-	-	-	
W	in	7-7/8	9-7/8	9-7/8	11-13/16	11-13/16	13-3/4	17-11/16	19-11/16	22-1/16	18/1/8	18-1/8	24	24	24	30	-	-	-	-	-	-	
	mm	200	250	250	300	300	350	450	500	560	460*	460*	610*	610*	610*	760*	-	-	-	-	-	-	
WT	RF	30	39	55	83	92	137	240	333	536	699	1010	1205	1720	2800	3786	4380	6000	7970	9510	12600	-	
(kg)	BW	26	34	47	68	77	118	195	271	432	595	848	1025	1460	2294	3220	3800	5300	-	-	-	-	

\*Manual gear operator is recommended

### Class 600

## Parallel Slab Gate Valve Class 150-600

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

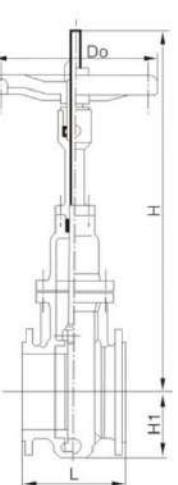
Valves designed to API 6D  
Valves tested to API and API598  
Face-to-Face to API and ANSI B16.10  
RF flanged ends to ANSI B16.5

### Standard Material Specifications

Part Name	Material
Body & Bonnet	A216 WCB, CF8, CF8M, CF3, CF3M
Wedge	Alloy Steel(face harden treated), Stainless steel(with Co overlay)
Stem	Alloy Steel(face erosion-resistant treated)
Seat	Alloy Steel(race Harden Treated, Beset F plastic), Steel(with Co overlay, Beset F plastic)
Packing	PTFE
O-Ring	NBR, FEP
Sealing Grease	

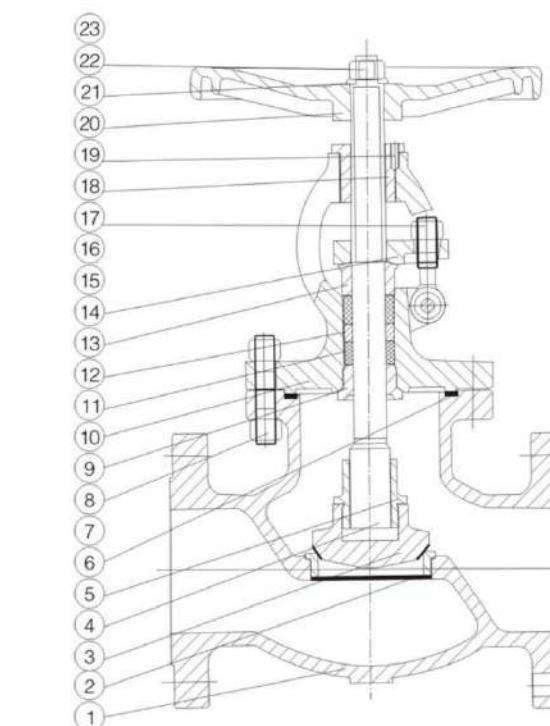
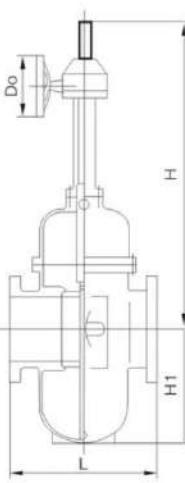
### Parallel Plate Gate Valve Without Diversion Hole Dimensions

Class	Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	mm
150	L	178	203	229	267	292	330	356	381	406	432	457	
	H	415	530	692	895	1080	1360	1495	1700	1950	2250	2465	
	H1	80	98	110	150	170	210	240	265	295	325	335	
	Do	250	300	350	350	350	400	500	600	-	-	-	
300	L	216	283	305	403	419	457	502	762	838	914	991	
	H	415	530	692	895	1080	1360	1495	1700	1950	2250	2465	
	H1	80	98	125	180	200	235	280	330	370	400	440	
	Do	250	300	350	350	350	400	500	600	-	-	-	
600	L	292	356	432	559	660	787	838	889	991	-	-	
	H	415	530	692	895	1080	1360	1495	1700	1950	-	-	
	H1	80	98	125	180	200	235	280	330	370	-	-	
	Do	250	300	350	400	500	600	-	-	-	-	-	



### Parallel Plate Gate Valve Without Diversion Hole Dimensions

Class	Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	mm
150	L	178	203	229	267	292	330	356	381	406	432	457	
	H	415	530	692	895	1080	1360	1495	1700	1950	2250	2465	
	H1	410	195	240	330	410	510	600	685	800	870	955	
	Do	250	300	350	350	350	400	500	600	-	-	-	
300	L	216	283	305	403	419	457	502	762	838	914	991	
	H	415	530	692	895	1080	1360	1495	1700	1950	2250	2465	
	H1	140	195	240	330	410	510	600	685	800	870	995	
	Do	250	300	350	350	350	400	500	600	-	-	-	
600	L	292	356	432	559	660	787	838	889	991	-	-	
	H	415	530	692	895	1080	1360	1495	1700	1950	-	-	
	H1	410	195	240	330	410	510	600	685	800	-	-	
	Do	250	300	350	400	500	600	-	-	-	-	-	



Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

OS & Y, Rising Stem, Plug Type Disc Bolted  
Bonnet, Threaded Seat Ring

### STANDARDS COMPLIANCE:

Basic Design: BS1873

Face to Face Dimension: ANSI B16.10

End to End Dimension: ANSI B16.10

Flanged Ends to ANSI B16.5

B. W. Ends to ANSI B16.25

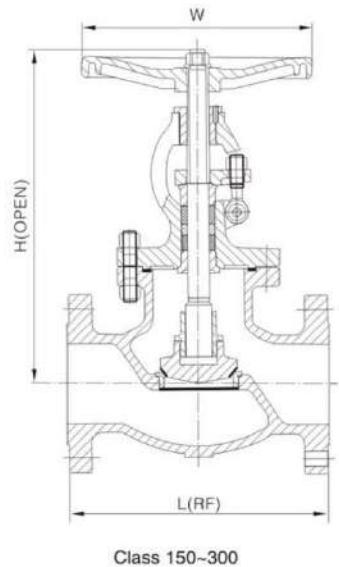
Manufacturing to NACE MR-01-75 on request

### Standard Material Specifications

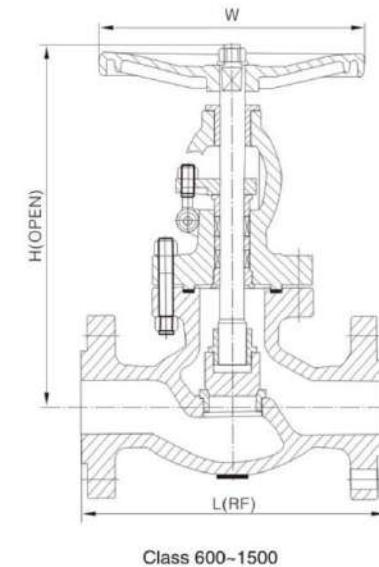
No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM		Stainless Steel to ASTM				
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L
3	Disc	A105	A250 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L
4	Stem	A182 F6	A182 F6		A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L
5	Disc nut	A182 F6	A182 F6		A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L
6	Gasket						SS Spiral Wound/graphite or SS Spiral Wound/PTFE			
7	Bonnet nut	A194 2H	A194 4		A194 7		A194 8			
8	Bonnet bolt	A193 B7	A320 L7		A193 B16		A193 B8			
9	Backseat bushing	A182 B6	A182 F6		A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L
10	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
11	Lantern	A182 F6	A182 F6		A182 F304		A182 F304	A182 F316	A182 F304L	A182 F316L
12	Stem Packing						Graphite or PTFE			
13	Gland			A182 F6			A182 F304	A182 F316	A182 F316L	
14	Gland Flange			A216 WCB						A351 CF8
15	Gland Nut			A194 2H						A194 8
16	Gland Eyebolt			A194 B7						A193 B8
17	Pin						Carbon steel or Stainless Steel			
18	Stem Nut						A439 D2 or B148-952A			
19	Screw						Carbon steel			
20	Hand Wheel						Ductile Iron or carbon steel			

## Globe Valve

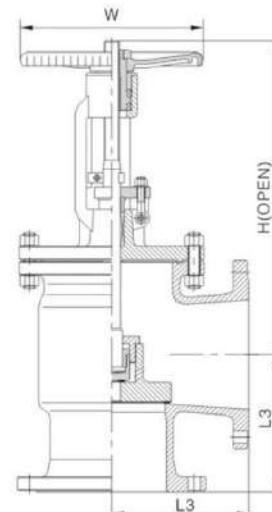
Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



Class 150~300

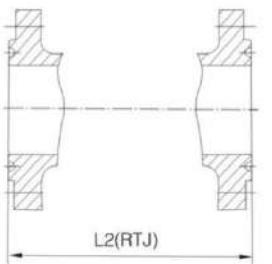


Class 600~1500

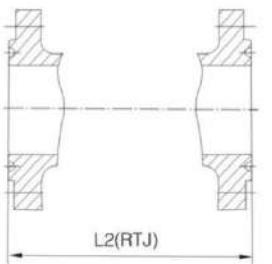


### Dimensions and Weights

Class 150										
NPS	in	2	2-1/2	3	4	5	6	8	10	12
DN	mm	50	65	80	100	125	150	200	250	300
(RF-BW)	in	8	8-1/2	9-1/2	11-1/2	14	16	19-1/2	24-1/2	27-1/2
	mm	203	216	241	292	356	406	495	622	698
(RTJ)	in	8-1/2	9*	10	12	14-1/2	16-1/2	20	25	28
	mm	216	229	254	305	368	419	508	635	711
L3	mm	102	108	121	146	178	203	248	311	349
	in	4	4-1/2	5	6	7	8	10	12	14
H (OPEN)	mm	373	390	421	515	538	567	626	712	990
	in	14-11/16	15-3/8	16-9/16	20-1/4	21-3/16	22-5/15	24-5/8	28	39
W	mm	200	250	300	300	350	400	450	610	610
	in	7-7/8	9-7/8	9-7/8	11-13/16	11-13/16	13-3/4	15-3/4	17-3/4	24
WT (KG)	RF	22	29	42	64	77	105	154	288	507
	BW	19	25	34	49	65	82	131	249	430



L1(BW)



L2(RTJ)

### Test Pressure to API598

Class	Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
150	WCB	450psi	315psi	80psi
	WC6	450psi	319psi	
	CF8M	425psi	303psi	
300	WCB	1125psi	814psi	80psi
	WC6	1125psi	825psi	
	CF8M	1100psi	792psi	
600	WCB	2225psi	1628psi	80psi
	WC6	2250psi	1650psi	
	CF8M	2175psi	1548psi	
900	WCB	3350psi	2442psi	80psi
	WC6	3375psi	2475psi	
	CF8M	3250psi	2376psi	
1500	WCB	5575psi	4078psi	80psi
	WC6	5625psi	4125psi	
	CF8M	5400psi	3960psi	

Class 300										
NPS	in	2	2-1/2	3	4	5	6	8	10	12
DN	mm	50	65	80	100	125	150	200	250	300
(RF-BW)	in	10-1/2	11-1/2	12-1/2	14	15-3/4	17-1/2	22	24-1/2	28
	mm	267	292	318	356	400	444	559	622	711
(RTJ)	in	11-1/8	12-1/8	13-1/8	14-5/8	16-3/8	18-1/8	22-5/8	25-1/8	28-5/8
	mm	283	308	333	371	416	460	575	638	727
L3	mm	133	146	159	178	200	222	279	311	356
	in	5	5-1/2	6	7	8	9	10	11	12
H (OPEN)	mm	398	436	462	560	620	694	982	1130	1049
	in	15-11/16	17-1/8	18-3/16	22-1/16	24-3/8	27-5/16	38-5/8	44-1/2	41-5/16
W	in	7-7/8	9-7/8	9-7/8	13-3/4	15-3/4	17-3/4	22-1/16	34	18-1/8
	mm	200	250	250	350	400	450	560	864	460*
WT (KG)	RF	31	43	57	86	130	168	280	385	724
	BW	26	28	44	68	110	138	228	329	618

Class 600										
NPS	in	2	2-1/2	3	4	6	8	10	12	
DN	mm	50	65	80	100	150	200	250	300	
(RF-BW)	in	11-1/2	13	14	17	22	26	31	33	
	mm	292	330	356	432	559	660	787	838	
(RTJ)	in	11-5/8	13-1/8	14-1/8	17-1/8	22-1/8	26-1/8	31-1/8	33-1/8	
	mm	295	333	359	435	562	664	791	840	
L3	mm	425	502	521	620	886	932	1040	1280	
	in	16-3/4	19-3/4	20-1/2	24-3/8	34-7/8	36-11/16	41	50-3/8	
H (OPEN)	mm	425	502	521	620	886	932	1040	1280	
	in	9-7/8	11-13/16	13-3/4	17-3/4	28-3/8	38-1/8	42	30	
W	in	250	300	350	450	720	460*	610*	760*	
	mm	250	300	350	450	720	460*	610*	760*	
WT (KG)	RF	39	58	73						

## Globe Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.

Dimensions and Weights

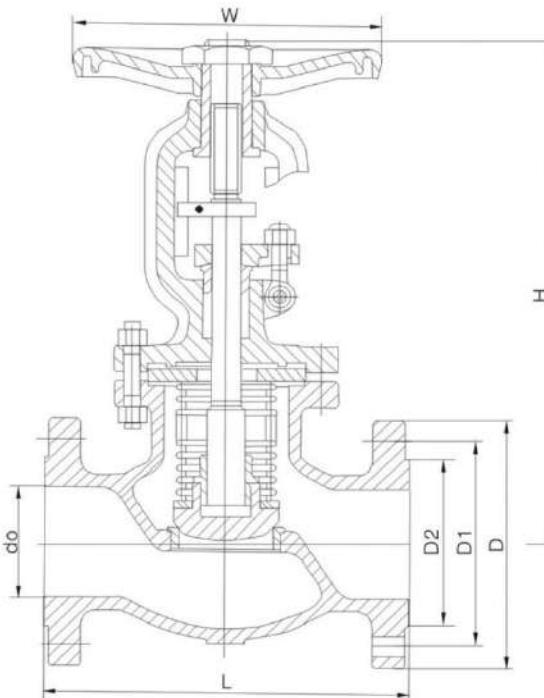
Class 900							
NPS	in	2	2-1/2	3	4	6	8
DN	mm	50	65	80	100	150	200
L-L1 (RF-BW)	in	14-1/2	16-1/2	15	18	24	29
	mm	368	419	381	457	610	737
L2 (RTJ)	in	14-5/8	16-5/8	15-1/8	18-1/8	24-1/8	29-1/8
	mm	371	422	384	460	613	740
H (OPEN)	in	9-7/16	10-1/4	10-1/4	12-5/8	15	20-7/8
	mm	240	260	260	320	382	530
W	in	13-3/4	15-3/4	17-3/4	22-1/16	18-1/8	24
	mm	350	400	450	560	460*	610*
WT (kg)	RF	100	118	131	218	452	710
	BW	75	94	105	185	340	630

Class 1500							
NPS	in	2	2-1/2	3	4	6	8
DN	mm	50	65	80	100	150	200
L-L1 (RF-BW)	in	14-1/2	16-1/2	18-1/2	21-1/2	27-3/4	32-3/4
	mm	368	419	470	546	705	832
L2 (RTJ)	in	14-5/8	16-5/8	18-5/8	21-5/8	28	33-1/8
	mm	371	422	473	549	711	841
H (OPEN)	in	23-5/16	26	27-1/4	35-11/16	40	45-1/16
	mm	592	660	692	907	1015	1145
W	in	13-3/4	15-3/4	17-3/4	18-1/8	24	24
	mm	350	400	450	460*	610*	610*
WT (KG)	RF	112	141	228	336	650	762
	BW	84	115	183	277	515	630

\*Manual gear operator is recommended

## ANSI More Arrangement Bellows Globe Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.

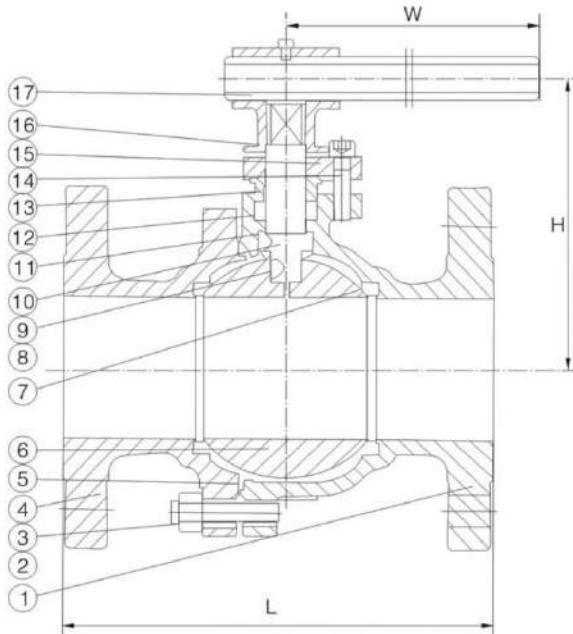


Main External and Connecting Dimensions

Nominal Pressure (Mpa)	NPS Nominal Diameter (in)	Dimension (mm)						
		d0	D	D1	D2	L	H	W
150LB	2	51	152	120.5	92	203	360	180
	2 1/2	64	178	139.5	105	216	390	180
	3	76	190	152.5	127	241	410	280
	4	102	229	190.5	157	292	460	300
	5	127	254	216	186	356	480	320
	6	152	279	241.5	216	406	500	320
	8	203	343	198.5	270	495	560	400
	10	254	406	362	324	622	620	500
	12	305	483	432	381	698	690	600
	14	337	533	476	413	787	770	650
300LB	2	51	165	127	92	267	370	180
	2 1/2	84	190	149	105	292	400	280
	3	76	210	168.5	127	318	420	280
	4	102	254	200	157	356	470	280
	5	127	279	235	186	400	490	320
	6	152	318	270	216	444	510	320
	8	203	381	330	270	559	570	400
	10	254	445	387.5	324	622	630	500
	12	305	521	451	381	711	700	600
	14	337	584	514.5	413	838	780	650

## Class150-600 Two-Piece Floating Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



### STANDARDS

Design and manufacture: API6D API608 or BS 5351

Face to Face Dimensions: ANSI B16.10

End Flange Dimensions: ANSI B16.5

Test: API 6D or API 598

### Type of Connection

RF and RTJ Flange Ends to ANSI B16.5 standard.

BW Flange Ends to ANSI B16.25 standard.

### Type of Operation

Lever

Connection dimensions of Worm Gear actuator, Electric actuator, Pneumatic actuator to ISO 5211 standard.

Anti-static electricity constructions "AS" and Fire-safe constructions "FD"

### Standard Material Specifications

No	Part Name	Carbon steel to ASTM			Stainless Steel to ASTM		
		WCB	LCB	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Bonnet nut	A194 2H	A194 4		A194 8		
3	Bonnet bolt	A193 B7	A320 L7		A193 B8		
4	Cap	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
5	Gasket	SS Spiral Wound/graphite or SS Spiral Wound/PTFE					
6	Ball	A105/Ep.Cr or F6	A182 F6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
7	Seat Ring	RPTFE or POM					
8	Small spring	Stainless Steel					
9	Small ball	A182 F304 A182 F316L					
10	Stern	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
11	Stem Seat	PTFE					
12	Stem Packing	PTFE or Graphite					
13	Gland	A182 F6		A182 F304	A182 F316	A182 F304L	A182 F316L
14	Gland Bolt	A193 B7		A193 B8			
15	Gland Flange	A216 WCB		A351 CF8			
16	Positioning Plate	Steel					
17	Wrench	A216 WCB					

The material is according to ASTM standard.

## Class150-600 Two-Piece Floating Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### Dimensions and Weights

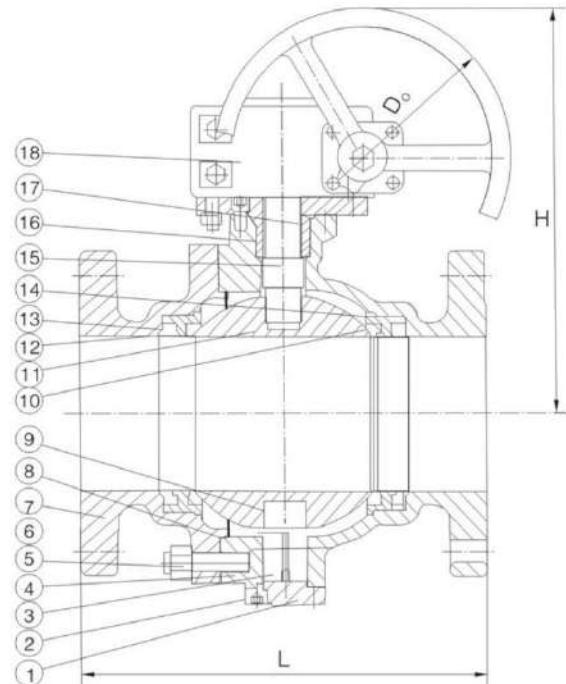
CLASS 150												
DN	mm	15	20	25	40	50	65	80	100	150	200	250
NPS	in	1/2	3/4	1	11/2	2	21/2	3	4	6	8	10
L(RF)	mm	108	117	127	165	178	191	203	229	394	457	533
	in	4.25	4.6	5	6.5	7	7.5	8	9	15.5	18	21
L1(BW)	mm	140	152	165	190	216	241	283	305	457	521	559
	in	5.5	6	6.5	7.48	8.5	9.5	11.13	12	20.5	22	
L2(RTJ)	mm	119	129.7	139.7	178	191	203	216	241	406	470	546
	in	4.69	5.11	5.5	6.9	7.5	8	8.5	9.5	16	18.5	21.5
H	mm	66	74	87	105	132	152	182	215	250	285	495
	in	2.6	2.9	3.48	4.2	5.28	6.08	7.28	8.6	10	11.4	19.5
Do(W)	mm	130	130	160	230	400	400	600	850	1100	1500	*350
	in	5.1	5.1	6.3	9	15.74	15.74	23.62	33.46	43.3	59	13.8
RF(Kg)		2.3	3	4.5	7	15	20	25	40	97	160	240
BW(Kg)		2.0	2.5	3.8	5.8	12	17	21	36	92.8	154	227

CLASS 300												
DN	mm	15	20	25	40	50	65	80	100	150	200	
NPS	in	1/2	3/4	1	11/2	2	21/2	3	4	6	8	
L(RF)	mm	140	152	165	190	216	241	283	305	403	502	
	in	5.5	5.98	6.5	7.48	8.5	8.5	11.13	12	15.88	19.75	
L1(BW)	mm	140	152	165	190	216	241	283	305	457	521	
	in	5.5	5.98	6.5	7.48	8.5	9.5	11.13	12	18	20.5	
L2(RTJ)	mm	151	164.7	177.7	202.7	232	257	298	321	419	518	
	in	5.95	6.48	7	8	9.13	10.13	11.75	12.63	16.5	20.38	
H	mm	66	74	87	105	115	158	166	183	285	294	
	in	2.6	2.9	3.48	4.2	4.6	6.32	6.64	7.32	11.4	11.76	
Do(W)	mm	130	130	160	230	400	400	600	850	1100	1500	
	in	5.1	5.1	6.3	9	15.74	15.74	23.62	33.46	43.3	59	
RF(Kg)		2.5	3.5	5.5	10.5	20	25	31	52	118	200	
BW(Kg)		2.1	3	4.8	8.7	17	22	28	48	105	185	

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## Class150-1500 Two-PieceTrunnion Mounted Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



### STANDARDS

Design and manufacture: API6D, API608, ANSI B16.34  
or BS 5351

Face to face dimensions: ANSI B16.10

Pressure-Temp Ratings: ANSI B16.34

Test: API 6D or API 598

### End flange dimensions

NPS 2-24: ANSI B16.5

NPS 26: ANSI B16.47 or MSS SP-44

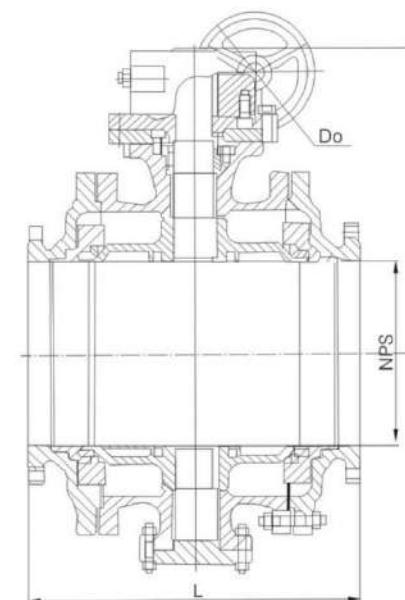
### Standard Material Specifications

No.	Part Name	Carbon steel to ASTM			Stainless Steel to ASTM		
		WCB	LCB	CF8	CF8M	CF3	CF3M
1	Underplate	WCB	LCB	CF8	CF8M	CF3	CF3M
2	Underplate Bolt	A193 B7	A320 L7		A193 B8		
3	Trunnion	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
4	Body	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
5	Bonnet Nut	A194 2H	A194 4		A194 8		
6	Bonnet Bolt	A193 B7	A320 L7		A193 B8		
7	Cap	A216 WCB	A352 LCB	A351 Cf8	A351 CF38M	A351 CF3	A351 CF3M
8	Gasket			SS Spiral Wound/graphite or SS Spiral Wound/PTFE			
9	Shaft Sleeve			SS/graphite			
10	Seat Ring			RPTFE or POM			
11	Ball	A105/Ep.Cr or F6	A182 F6	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
12	Seat	A105/Ep.Cr or F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
13	Spring			17-17PH(inconel for NACE) Ni-cr Alloy			
14	O-Ring			Viton			
15	Stem	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
16	Sealing Cover	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
17	O-Ring			Viton			
18	Gear Actuator						

The material is according to ASTM standard.

## Class150-1500 Three-PieceTrunnion Mounted Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



### Type of connection

R F and RTJ flange ends to ANSI B16.5 or ANSI B16.47  
and MSS SP-44 standard.

BW flange ends to ANSI B16.25 standard.

### Type of operation

Lever

Connection dimensions of Worm Gear actuator.

Electric actuator, Pneumatic actuator to ISO 5211 standard.

Anti-static Electricity constructions"AS" and

Fire-safe constructions"FD".

### Dimensions and Weights

CLASS 150															
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700
NPS	in	2	21/2	3	4	6	8	10	12	14	16	18	20	24	28
L(RF)	mm	178	191	203	229	394	457	533	610	686	762	864	914	1067	1245
L1(BW)	mm	216	241	283	305	457	521	559	635	762	838	914	991	1143	1346
L2(RTJ)	mm	191	203	216	241	406	470	546	622	699	775	876	927	1080	
L	in	7	7.5	8	9	15.5	18	21	24	27	30	34	36	42	49
H	mm	8.5	9.5	11.13	12	18	20.5	22	25	30	33	36	39	45	53
Do(W)	mm	191	203	216	241	406	470	546	622	699	775	876	927	1080	
Do(W)	in	7.5	8	8.5	9.5	16	18.5	21.5	24.5	27.5	30.5	34.5	36.5	42.5	
H	mm	153	165	195	213	272	342	495	580	625	720	790	840	1050	1150
H	in	6.05	6.5	7.68	8.39	10.7	13.5	19.5	22.85	24.6	28.35	31	33.1	41.34	45.3
Do(W)	mm	400	400	600	850	1100	1500	*350	*350	*600	*600	*800	*800	*800	*800
RF(Kg)		15	19	38	65	97	160	240	390	510	750	895	1190	2100	3000
BW(Kg)		13	17	35	55	92.8	154	227	365	478	711	868	1138	2015	2900
CLASS 300															
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700
NPS	in	2	21/2	3	4	6	8	10	12	14	16	18	20	24	28
L(RF)	mm	216	241	283	305	403	502	568	648	762	838	914	991	1143	1346
L1(BW)	mm	216	241	283	305	457	521	559	635	762	838	914	991	1143	1346
L2(RTJ)	mm	232	257	298	321	419	518	584	664	778	854	930	1010	1165	1372
L	mm	8.5	9.5	11.13	12	18	20.5	22	25	30	33	36	39	45	53
H	mm	153	165	195	213	272	342	495	580	625	720	790	840	1050	1150
H	in	6.02	6.5	7.68	8.39	10.7	13.5	19.5	22.85	24.6	28.35	31	33.1	41.34	45.3
Do(W)	mm	400	400	600	850	1100	1500	*350	*350	*600	*600	*800	*800	*800	*800
Do(W)	in	15.74	15.74	23.62	33.46	43.3	59	13.8	13.8	23.6	31.5	31.5	31.5	31.5	31.5
RF(Kg)		18	27	47	80	118	200	365	530	740	1030	1320	1540	2600	3900
BW(Kg)		14	22	38	65	105	185	3							

## Trunnion Mounted Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### Dimensions and Weights

CLASS 600													
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500
NPS	in	2	21/2	3	4	6	8	10	12	14	16	18	20
L(RF)	mm	292	330	356	432	559	660	787	838	889	991	1092	1194
	in	11.5	13	14	17	22	26	31	33	35	39	43	47
L1(BW)	mm	292	330	358	432	22	660	787	838	889	991	1092	1194
	in	11.5	13	14	17	559	26	31	33	35	39	43	47
L2(RTJ)	mm	295	333	359	435	562	664	791	841	892	994	1095	1200
	in	11.63	13.13	14.13	17.13	22.13	26.13	31.13	33.13	35	39.5	43.1	47.3
H	mm	153	165	195	213	272	342	495	580	630	725	800	850
	in	6.02	6.5	7.68	8.39	10.7	13.5	19.5	22.85	24.8	28.5	31.5	33.5
Do(W)	mm	600	850	1250	1300	1500	*350	*350	*600	*600	*800	*800	*800
	in	23.62	33.46	49.25	51.22	59	13.8	13.8	23.6	23.6	31.5	31.5	31.5
RF(Kg)		38	56	66	122	217	350	660	820	830	1160	1420	1650
BW(Kg)		31	51	58	117	200	327	605	790	800	1030	1305	1505

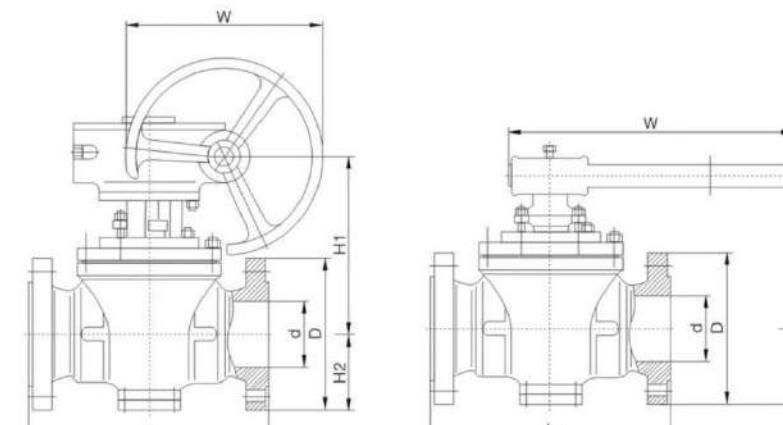
CLASS 900													
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500
NPS	in	2	21/2	3	4	6	8	10	12	14	16	18	20
L(RF)	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321
	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52
L1(BW)	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321
	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52
L2(RTJ)	mm	371	422	384	460	613	740	841	968	1032	1133	1222	1327
	in	14.63	16.63	15.13	18.13	24.13	29.13	33.13	38.13	40.6	44.6	48.1	52.3
H	mm	162	195	205	239	290	355	510	595	650	750	835	900
	in	6.36	7.7	80.5	9.41	11.4	14	20	23.4	25.6	29.5	32.9	35.4
Do(W)	mm	600	850	1250	1300	1500	*350	*350	*600	*600	*800	*800	*800
	in	23.62	33.46	49.25	51.22	59	13.8	13.8	23.6	23.6	31.5	31.5	31.5
RF(Kg)		48	60	78	138	315	480	710	890	910	1200	1480	1760
BW(Kg)		44.5	52.5	75.2	131	297	440	690	827	870	1100	1210	1620

CLASS 1500													
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500
NPS	in	2	21/2	3	4	6	8	10	12	14	16	18	20
L(RF)	mm	368	419	470	546	705	832	991	1130	1257	1384		
	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5		
L1(BW)	mm	368	419	470	546	705	832	991	1130	1257	1384		
	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5		
L2(RTJ)	mm	371	422	473	549	711	842	1000.5	1146	1276	1406		
	in	14.63	16.63	18.63	21.63	28	33.13	39.38	45.13	50.2	55.4		
H	mm	197	220	254	290	355	510	595	655	680	780		
	in	7.74	8.7	10	11.44	14	20	23.5	25.8	26.8	30.7		
Do(W)	mm	600	*350	*350	*600	*600	*800	*800	*800	*800			
	in	23.6	13.8	13.8	23.6	23.6	31.5	31.5	31.5	31.5			
RF(Kg)		55	80	97	162	290	390	745	935	1000	1305		
BW(Kg)		51	71	92.8	157.5	227	335	697	885	915	1200		

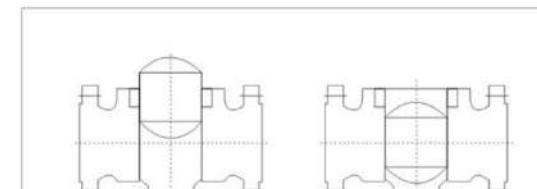
\*Worm Gear or Electric actuator operated.

## Top Entry Trunnion Mounted Ball Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



Design manufacture according to API6D, ASME B16.34  
Inspection and test to API 598  
Flang to ASME B16.5,  
DIN2543-2550, JB/T79.4  
Material to NACE MRO175  
Fire safe as per API 607, API 6FA



The ball is fitted into the valve body from the top, thus for repair work.



Seat inter-rolled can be to prevent the seat inserts being washed out.

F.S. Design of seat-assistant. Body chamber greased urgencywhen firing.

### Dimensions and mm and inches(Weights)

CLASS 150						
Size	G	L	H1	H2	W	Weight



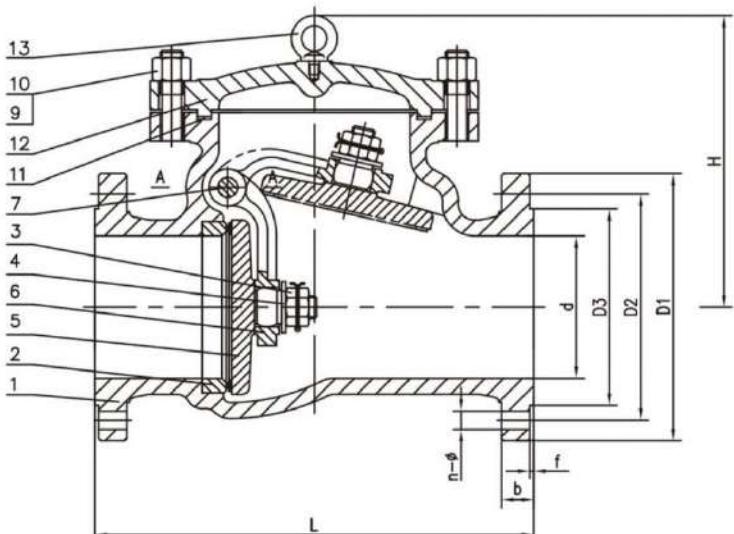


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## PRIMARY PRODUCT

### API 6D EXTERNAL PIN CHECK VALVE

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



#### Standard Material Specifications

No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM			Stainless Steel to ASTM			
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L
3	Disc Nut	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
4	Disc Washer	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
5	Disc	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
6	Hinge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8M	A351 CF8M	A351 CF3	A351 CF3M
7	Hinge Pin	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
8	Yoke	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
9	Bonnet nut	A194 2H	A194 4	A194 7		A194 8				
10	Bonnet bolt	A193 B7	A30 L7	A193 B16		A193 B8				
11	Gasket	SS Spiral Wound/graphite or SS Spiral Wound/PTFE								
12	Cover	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
13	Hook Screw	Steel								
14	Gasket	GB T2								
15	Drain Plug	Carbon Steel								

Other materials (Alloy 20, AISI 321, AISI 347, Monel, Hastelloy, etc) are available on request.

## PRIMARY PRODUCT

### API 6D EXTERNAL PIN CHECK VALVE

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

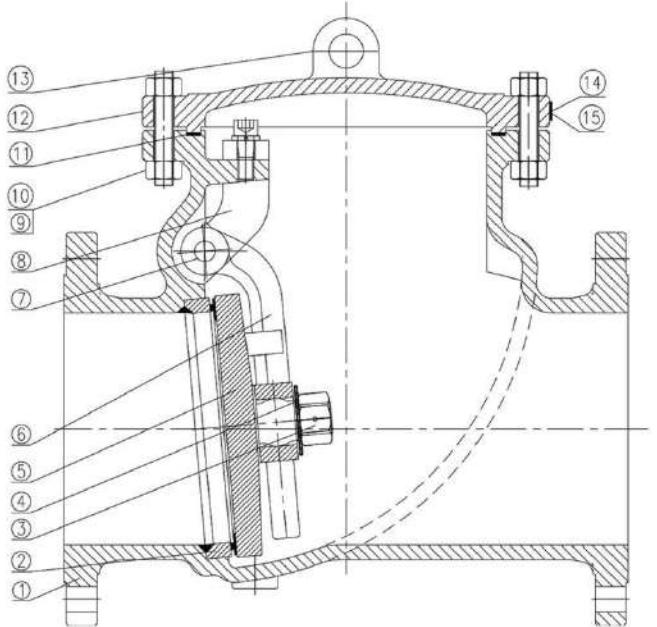
CLASS150											
CLASS	NPS	d	D1	D2	D3	b	f	L	n-φ	H	Weight(KG)
150Lb	2	49	152	120.5	92	16	1.6	203	4-φ19	130	15
	2½	62	178	139.5	105	18		216	4-φ19	145	20
	3	74	190	152.5	127	19		241	4-φ19	160	24
	4	100	229	190.5	157	24		292	8-φ19	188	38
	6	150	279	241.5	216	26		356	8-φ22	280	65
	8	201	343	298.5	270	29		495	8-φ22	350	126
	10	252	406	362	324	31		622	12-φ25	410	190
	12	303	483	432	381	32		698	12-φ25	465	290
	14	334	533	476	413	35		787	12-φ29	510	420
	16	385	597	540	470	37		864	16-φ29	575	540
	18	436	635	578	533	40		978	16-φ32	620	700
	20	487	699	635	584	43		978	20-φ32	680	810

CLASS300											
CLASS	NPS	d	D1	D2	D3	b	f	L	n-φ	H	Weight(KG)
300Lb	2	49	165	127	92	23	1.6	267	8-φ19	140	19
	2½	62	190	149	105	26		292	8-φ22	150	30
	3	74	210	168.5	127	29		318	8-φ22	185	38
	4	100	254	200	157	32		356	8-φ22	210	61
	6	150	318	270	216	37		444	12-φ22	310	114
	8	201	381	330	270	42		533	12-φ25	385	190
	10	252	445	387.5	324	48		622	16-φ29	432	305
	12	303	521	451	381	51		711	16-φ32	520	454
	14	334	584	514.5	413	54		838	20-φ32	545	660

CLASS600											
CLASS	NPS	d	D1	D2	D3	b	f	L	n-φ	H	Weight(KG)
600Lb	2	49	165	127	92	26	6.4	292	8-φ19	151	24
	2½	62	190	149	100	29		330	8-φ22	165	39
	3	74	210	168	127	32		356	8-φ22	195	45
	4	100	273	216	157	38		432	8-φ25	270	91
	6	150	356	292	216	48		559	12-φ29	365	190
	8	201	419	349	270	56		660	12-φ32	420	343
	10	252	508	432	324	64		787	16-φ35	505	618
	12	303	559	489	381	67		838	30-φ35	602	780

## Check Valve

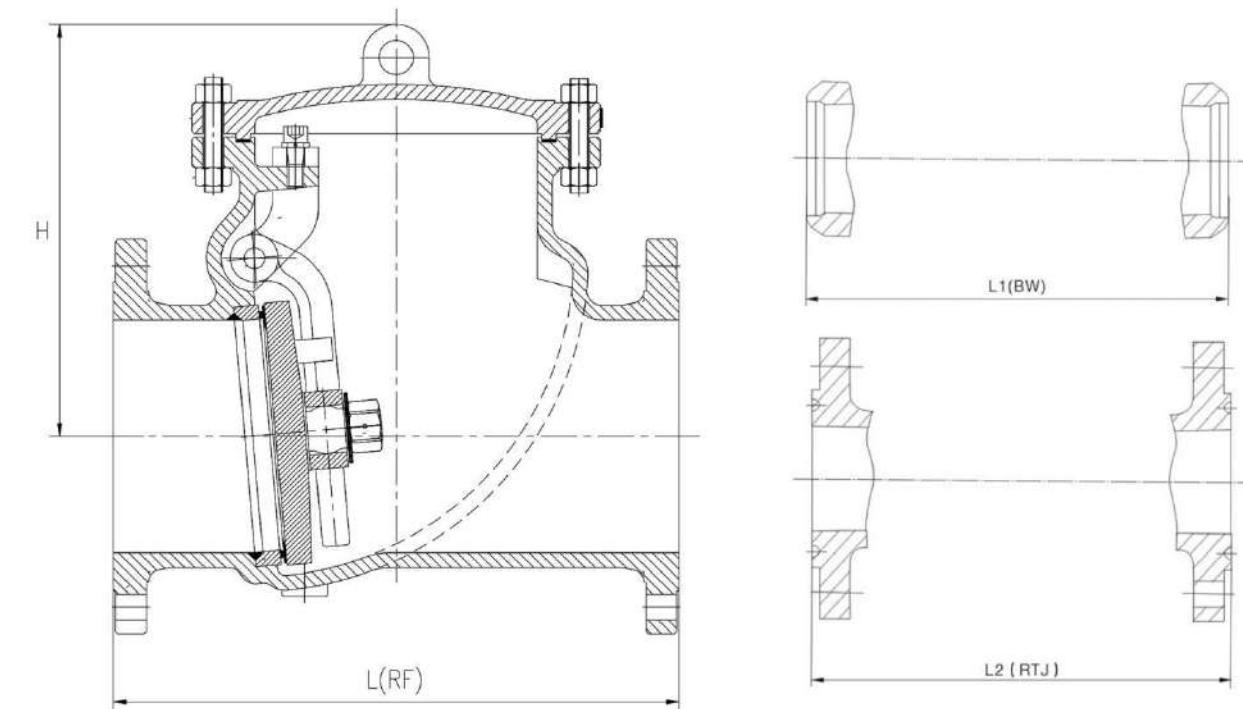
Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



Bolted, Cover, Swing Type Disc,  
Threaded or  
Welded Seat Ring

### STANDARDS COMPLIANCE:

Basic Design: API594  
Face to Face Dimension: ANSI B16.10  
End to End Dimension: ANSI B16.10  
Flanged Ends: 2" ~ 24" to ANSI B16.5  
> 24" to MSS SP-44  
to ANSI B16.34 on request  
B. W. Ends to ANSI B16.25  
Manufacturing to NACE MR-01-75 on request



### Standard Material Specifications

No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM			Stainless Steel to ASTM			
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L
3	Disc Nut	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
4	Disc Washer	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
5	Disc	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
6	Hinge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8M	A351 CF8M	A351 CF3	A351 CF3M
7	Hinge Pin	A182 F304				A182 F304	A182 F316	A182 F304L	A182 F316L	
8	Yoke	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
9	Bonnet nut	A194 2H	A194 4	A194 7			A194 8			
10	Bonnet bolt	A193 B7	A30 L7	A193 B16			A193 B8			
11	Gasket	SS Spiral Wound/graphite or SS Spiral Wound/PTFE								
12	Cover	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
13	Hook Screw	Steel								
14	Nameplate	Stainless steel or Aluminum								
15	Rivet	Stainless steel or Aluminum								

Other materials (Alloy 20, AISI 321, AISI 347, Monel, Hastelloy, etc) are available on request.

## Check Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### Test Pressure to API598

Class	Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
150	WCB	450psi	315psi	80psi
	WC6	450psi	319psi	
	CF8M	425psi	303psi	
300	WCB	1125psi	814psi	80psi
	WC6	1125psi	825psi	
	CF8M	1100psi	792psi	
600	WCB	2225psi	1628psi	80psi
	WC6	2250psi	1650psi	
	CF8M	2175psi	1548psi	
900	WCB	3350psi	2442psi	80psi
	WC6	3375psi	2475psi	
	CF8M	3250psi	2376psi	
1500	WCB	5575psi	4078psi	80psi
	WC6	5625psi	4125psi	
	CF8M	5400psi	3960psi	



6D-1974



602-0031



ISO9001-2008



特种设备制造许可证



0343



6D-1974



602-0031



ISO9001-2008



特种设备制造许可证



0343

## Check Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.

### Dimensions and Weights

Class 150																	
NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	900
L-L1	in	8	8-1/2	9-1/2	11-1/2	13	14	19-1/2	24-1/2	27-1/2	31	34	38-1/2	38-1/2	51	60	77
(RF-BW)	mm	203	216	241	292	330	356	495	622	698	787	864	978	978	1295	1524	1955
L2	in	8-1/2	9	10	12	13-1/2	14-1/2	20	25	28	31-1/2	34-1/2	39	39	51-1/2	60-1/2	77-1/2
(RTJ)	mm	216	229	254	305	343	368	508	635	711	800	876	991	991	1308	1537	1968
H	in	5-7/8	6-5/8	7-1/16	8-1/4	9-1/16	10-13/16	13-3/8	14	16-1/8	18-11/1	21-3/4	23-5/8	26	29-1/8	38-5/8	40-3/4
(OPEN)	mm	150	168	180	210	230	275	340	355	410	475	552	600	660	740	980	1035
WT	RF	17	21	29	42	69	74	108	177	282	372	570	665	900	1359	2120	3344
(kg)	BW	13	17	24	36	57	62	96	158	238	324	483	548	782	1150	1890	2940

Class 300																
NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	30
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750
L-L1	in	10-1/2	11-1/2	12-1/2	14	15-3/4	17-1/2	21	24-1/2	28	33	34	38-1/2	40	53	62-3/4
(RF-BW)	mm	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346	1594
L2	in	11-1/8	12-1/8	13-1/8	14-5/8	16-3/8	18-1/8	21-5/8	25-1/8	28-5/8	33-5/8	34-5/8	39-1/8	40-3/4	53-7/8	63-3/4
(RTJ)	mm	283	308	333	371	416	460	549	638	727	854	879	994	1036	1368	1619
H	in	7-1/16	7-1/4	8-1/4	10-5/8	13-9/16	14-3/16	14-9/16	15-1/8	17-5/16	20-7/16	21-13/16	23-1/4	24-3/16	27-15/16	34-1/16
mm	180	185	210	270	345	360	370	385	440	520	554	590	614	614	866	
WT	RF	21	32	43	61	84	131	213	384	449	680	840	1025	1320	1960	3270
(kg)	BW	16	24	35	44	61	105	167	272	375	560	710	828	1070	1586	2830

Class 600																
NPS	in	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24		
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600		
L-L1	in	11-1/2	13	14	17	22	26	31	33	35	39	43	47	55		
(RF-BW)	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397		
L2	in	11-5/8	13-1/8	14-1/8	17-1/8	22-1/8	26-1/8	31-1/8	33-1/8	35-1/8	39-1/8	43-1/8	47-1/4	55-3/8		
(RTJ)	mm	295	333	359	435	562	664	791	841	892	994	1095	1200	1407		
H	in	7-3/4	8-1/8	9-1/8	11-1/16	14-1/4	17-3/16	19-5/16	20-3/4	22-1/2	26	28-3/8	29-3/8	37-13/16		
mm	197	207	231	281	362	437	490	528	572	660	720	746	960			
WT	RF	36	49	68	111	230	416	673	875	944	1220	1620	2120	3100		
(kg)	BW	28	40	57	83	191	361	543	770	820	1015	1350	1750	2520		

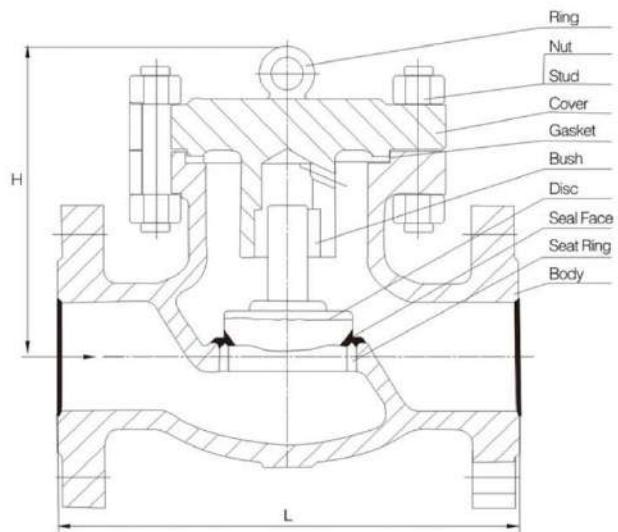
\*Manual gear operator is recommended

### Dimensions and Weights

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## Class 150/300 Lift Check Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

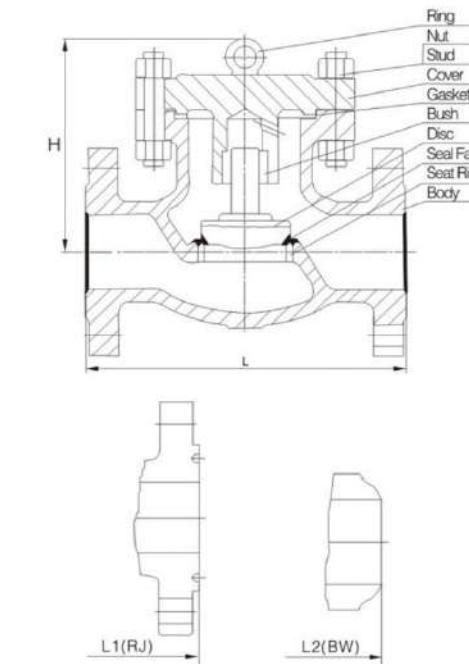


### STRUCTURE TYPE

Bolted Cover, Lift Type Disc, Threaded Seat Ring.

### STANDARDS:

Basic design: ASME B16.34 and BS 1868  
Face to Face Dimensions: ASME B16.10  
End Flange Dimensions: ASME/ANSI B16.5a  
Shell Wall Thickness: ASME B16.34  
Test: API 598  
Pressure-Temperature Rating: ASME B16.34



### STRUCTURE TYPE

Bolted Cover, Lift Type Disc, Threaded Seat Ring

### STANDARDS:

Basic design: ASME B16.34 and BS 1868  
Face to Face Dimensions: ASME B16.10  
End Flange Dimensions: ASME/ANSI B16.5a  
Shell Wall Thickness: ASME B16.34  
Test: API 598  
Pressure-Temperature Rating: ASME B16.34

### Standard Material Specifications

Part Name	WCB series	304 series	316 series	Cr-Mo(V) series	low temperature series	resist sulphur series	Monel inside series
Body Cover	A216-WCB	A351-CF8 -CF3	A351-CF8 -CF3M	A217-WC6 WC9 -C5	A352-LCB -LCC	A351-CF8M	A216 WCB
Disc	A105 A182-F6a	A182-F304 -F304L	A182-F316 -F316L	A182-F11 F22 F6a	A182-F6a	A182-F316	Monel k400
Seat Ring	A105 A182-F6a	A182-F304 -304L	A182-F316 -316L	A182-F6a F22	A182-F6a	A182-F316	Monel k400
Seal Face	13% Cr 13%Cr STL/13%Cr stainless steel valve local body/STL STL/STL					Monel k400	
Gasket	304 or 316 stainless steel twisted flexible graphite					Monel+Twisted flexible graphite	
Stud	A193-B7	A193-B8	A193-B8	A193 B16	A320-L7	A193-B7	A193-B7
Nut	A194-2H	A194-8	A194-8	A194-7	A194-4	A197-2H	A194-2H
Ring	A105	A182-F6a	A182-F6a	A182-F6a	A182-F6a	A182-F6a	A105

NOTE: Other materials can be selected according to the customer's requirement.

### Dimensions and Weights

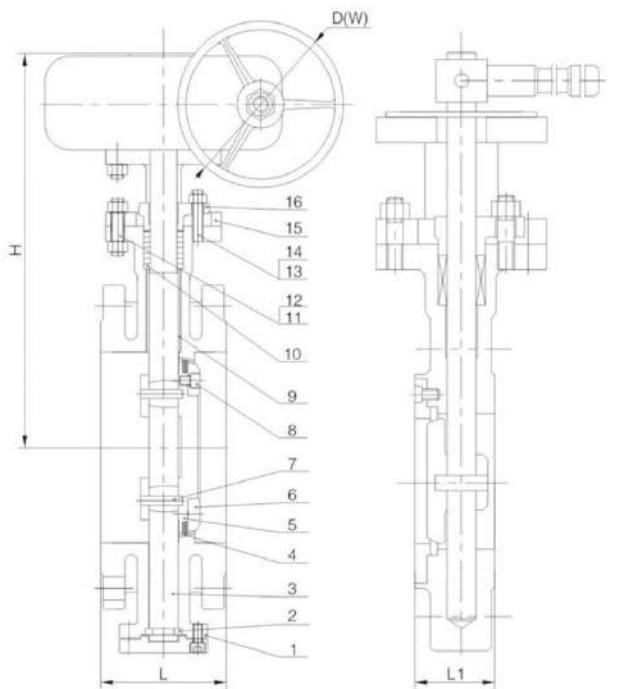
	NPS DN	in mm	2 50	2-1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300
L (RF)	Class 150	in mm	8 203	8-1/2 216	9-1/2 241	11-1/2 292	14 356	16 406	19-1/2 495	24-1/2 622	27-1/2 698
	Class 300	in mm	10-1/2 267	11-1/2 292	12-1/2 318	14-356 356	15-3/4 400	17-1/2 445	22 559	24-1/2 622	28 711
H	Class 150	in mm	7-1/16 179	7-5/8 194	8-7/16 214	9-3/8 238	10-1/4 260	11-7/16 291	13-1/2 343	15-5/16 389	17-14 438
	Class 300	in mm	7-13-16 198	8-5/8 219	9-5/8 244	10-13/16 275	113/4 298	12-7/8 327	15 381	17 432	19-1/2 495
WT	Class 150		17	25	29	48	68	85	138	210	350
	Class 300		28	33	42	67	98	135	203	296	448

### Dimensions and Weights

NPS DN	in mm	2 50	2-1/2 65	3 80	4 100	5 125	6 150	8 220	10 250	12 300
L (RF)	in mm	11-1/2 292	13 330	14 356	17 432	20 508	22 559	26 660	31 787	33 838
	mm	292	330	356	432	508	559	660	787	838
L1 (RJ)	in mm	11-5/8 295	13-1/8 333	14-1/8 359	17-1/8 435	20-1/8 511	22-1/8 562	26-1/8 664	31-1/8 791	33-1/8 841
	mm	295	333	359	435	511	562	664	791	841
L2 (BW)	in mm	11-1/2 292	13 330	14 356	17 432	20 508	22 559	26 660	31 787	33 838
	mm	292	330	356	432	508	559	660	787	838
H	in mm	8-7/16 214	9-1/4 235	10-5/16 262	11-13/16 300	13 330	14-1/2 368	16-9/16 421	20-7/8 483	25-1/2 530
	mm	214	235	262	300	330	368	421	483	530
WT	in mm	32 27	45 38	58 47	102 79	147 104	195 148	308 211	455 305	630 470
	mm	27	38	47	79	104	148	211	305	470

## Class 125-300Butterfly Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve,Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



### STANDARDS

Flange Butterfly Valves: MSS SP-67

Wafer Butterfly Valves: MSS SP-68 OR API 609

Face to face dimensions: ANSI B16.10 MSS SP-67 and MSS SP-68 or 609

Test: API598

### End flange dimensions

NPS 1 1 /2-24: ANSI B16.5

NPS 30-72: MSS SP-44 or ANSI B16.47

### Type of construction

Flange Butterfly Valves(Hard face and soft face)

Wafer Butterfly Valves(Hard face and soft face)

### Type of connection

R F and RTJ flange ends to ANSI B16.5 or API 605  
and MSS SP-44 standard.

### Type of operation

Lever

Worm Gear actuator, Electric actuator, Pneumatic actuator.

Actuator dimensions to ISO 5211 standard.

### Material List

No	Part Name	Carbon Steel		Alloy Steel		Stainless Steel				
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Below Axle Bush	PTFE or Stainless Steel And Graphite Spiral Wound								
3	Stern	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
4	Seat Ring	F6	F6	STL	STL6	STL6	F304	F316	F304L	F316L
5	Butterfly Plate	A216 WCB	A352 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
6	Lock Ring	A105	A182 F6	A182 F22	A182 F22	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L
7	Pin	Carbon Steel or Alloy Steel								
8	Screw	Carbon Steel or Alloy Steel								
9	Top Axle Bush	PTFE or Stainless Steel And Graphite Spiral Wound								
10	Packing	Graphite + 304								
11	Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8	A193 B8	
12	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 Gr.8	A194 Gr.8	A194 Gr.8	
13	Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8	A193 B8	A193 B8	
14	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 Gr.8	A194 Gr.8	A194 Gr.8	
15	Yoke	A216 WCB	A352 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
16	Gland	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L

The material is according to ASTM standard

### Dimensions and Weights

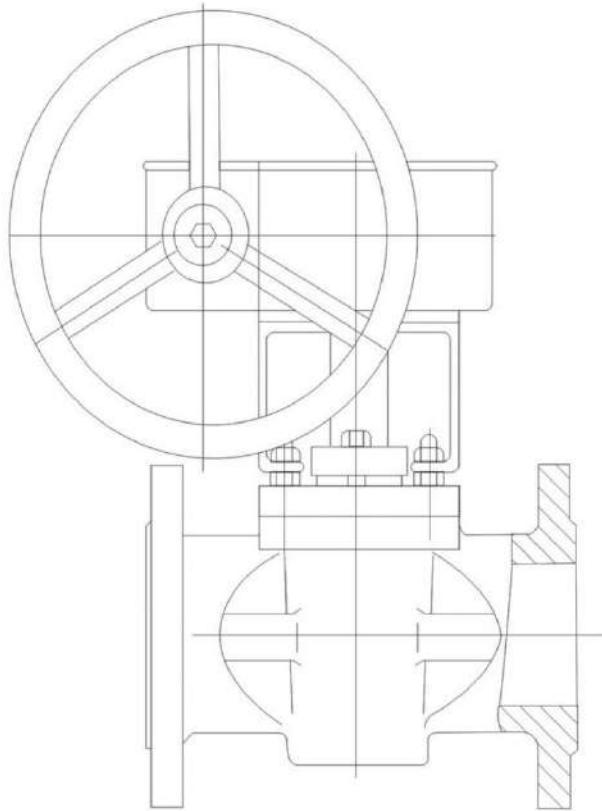
CLASS 125													
DN	mm	400	450	500	600	750	900	1050	1200	1350	1500	1650	1800
NPS	in	16	18	20	24	30	36	42	48	54	60	66	72
L	mm	203.2	230.2	203.2	203.2	304.8	304.8	304.8	381.0	381.0	381.0	457.2	457.2
L1	mm	79.3	101.6	127	154	165.1	200.2	251	276.4				
L1	in	3.12	4	5	6.06	6.5	7.88	10.88					
H	mm	481	521	568	698	903	1031	1122	1180	1425	1545	1624	1750
H	in	19	20.5	22.4	27.5	35.6	40.6	44.2	46.5	56.1	60.8	64	69
Do(W)	mm	300	400	450	500	*350	*350	*350	*350	*350	*350	*350	*350
Do(W)	in	11.8	15.8	17.7	19.7	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Weight (Kg)	RF	230	274	375	595	1030	1985	2100	3420	3875	3980	4210	4335
Weight (Kg)	BW	200	248	334	510	880	1580	1680	2736				

CLASS 150													
DN	mm	40	50	65	80	100	125	150	200	250	300	350	400
NPS	in	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16
L	mm					127	127	127	152	203.2	203.2	203.2	203.2
L1	mm					5	5	5	6	8	8	8	8
L1	in					0.197	0.197	0.197	0.236	0.8	0.8	0.8	0.8
H	mm	38.1	46	50.8	48	54	63.5	57	63.5	71.5	81.0	92.0	101.5
H	in	1.5	1.81	2	1.88	2.13	2.5	2.25	2.5	2.81	3.19	3.62	4.00
Do(W)	mm	160	160	160	160	160	160	160	200	200	250	300	300
Do(W)	in	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	9.8	9.8	11.8
Weight (Kg)	RF	274	375	595	1030	1985	2100	3420	3875	3980	4210	4335	4335
Weight (Kg)	BW	248	334	510	880	1580	1680	2736					

CLASS 300													
DN	mm	40	50	65	80	100	125	150	200	250	300	350	400
NPS	in	1 1/2	2	2 1/2	3	4	5	6	8	10			

## Self-Lubricated Plug Valve Class 150-600

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



### STANDARDS

Design and manufacture: API 6D ANSI B16.34

Face to face dimensions: ANSI B16.10

End flange dimensions: ANSI B16.5

Test: API 6D or API 598

### Type of connection

R F and RTJ flange ends to ANSI B16.5 standard.

BW flange ends to ANSI B16.25 standard

### Type of operation

Lever

Connection dimensions of worm Gear actuator,

Electric actuator,

Pneumatic actuator to ISO 5211 standard

Anti-static Electricity constructions "AS" and

Fire-safe constructions "FD"

### Material List

No	Part Name	Carbon Steel		Stainless Steel			
		WCB	LCB	CF8	CF8M	CF3	CF3M
1	Body	A216WCB	A352LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Bonnet	A216WCB	A352LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3	Plug	A105/Ep.Cr	A182 F304	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Stem	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
5	Seat Ring	PTFE					
6	Gasket	PTFE or Stainless Steel and Graphite					
7	Stern seat	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
8	Small spring	17-17PH(inconel for NACE)Ni-Cr Alloy					
9	Small ball	A182 F304 A182 F316					
10	Gland	A 182 F6	A 182 F6	A 182 F304	A 182 F316	A 182 F304L	A 182 F316L
11	Gland flange	A216WCB	A352LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
12	Stem packing	PTFE or Graphite					
13	Bonnet Bolt	A193 B7 A320L7 A320 B8 A193B8M					
14	Bonnet Nut	A194 2H A194 4 A194 8					

The material is according to ASTM standard

## Self-Lubricated Plug Valve Class 150-600

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

### Dimensions and Weights

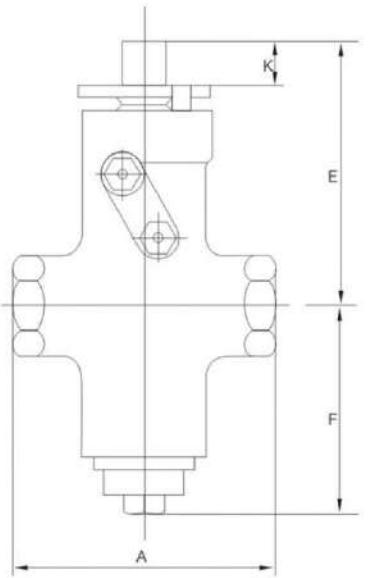
CLASS 150													
DN	mm	15	20	25	40	50	65	80	100	150	200	250	300
NPS	in	1/2	3/4	1	1	2	2 1/2	3	4	6	8	10	12
L(RF)	mm	108	117	127	165	178	191	203	229	394	457	533	610
	in	4.25	4.6	5	6.5	7	7.5	8	9	15.5	18	21	24
L1(BW)	mm	140	152	165	190	216	241	283	305	457	521	559	635
	in	5.5	6	6.5	7.48	8.5	9.5	11.13	12	18	20.5	22	25
L2(RTJ)	mm	119	129.7	139.7	178	191	203	216	241	406	470	546	622
	in	4.69	5.11	5.5	6.9	7.5	8	8.5	9.5	16	18.5	21.5	24.5
H	mm	59	63	75	92	153	165	195	213	272	342	495	580
	in	2.3	2.5	2.95	3.74	6.02	6.5	7.68	8.39	10.7	13.5	19.5	22.85
Do(W)	mm	130	130	160	230	400	400	600	850	1100	1500	*350	*350
	in	5.1	5.1	6.3	9	15.74	15.74	23.62	33.46	43.3	59	13.8	13.8
RF(Kg)		2.3	3	4.5	7	15	20	25	40	97	160	240	390
BW(Kg)		2.0	2.5	3.8	5.8	12	17	21	36	92.8	154	227	365

CLASS 300													
DN	mm	15	20	25	40	50	65	80	100	150	200	250	300
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12
L(RF)	mm	140	152	165	190	216	241	283	305	403	502	521	580
	in	5.5	5.98	6.5	7.48	8.5	9.5	11.13	12	15.88	19.75	21	25
L1(BW)	mm	140	152	165	190	216	241	283	305	457	521	559	635
	in	5.5	5.98	6.5	7.48	8.5	9.5	11.13	12	18	20.5	22	25
L2(RTJ)	mm	151	164.7	177.7	202.7	232	257	298	321	419	518	546	622
	in	5.95	6.48	7	8	9.13	10.13	11.75	12.63	16.5	20.39	21.5	24.5
H	mm	59	63	75	107	153	165	195	213	272	342	495	580
	in	2.3	2.5	2.95	4.2	6.02	6.5	7.68	8.39	10.7	13.5	19.5	22.85
Do(W)	mm	130	130	160	230	400	400	600	850	1100	1500	1500	1500
	in	5.1	5.1	6.3	9	15.74	15.74	23.62	33.46	43.3	59	13.8	13.8
RF(Kg)		2.5	3.5	5.5	10.5	20	25	31	52	118	200	200	200
BW(Kg)		2.1	3	4.8	8.7	17	22	28	48	105	185	185	185

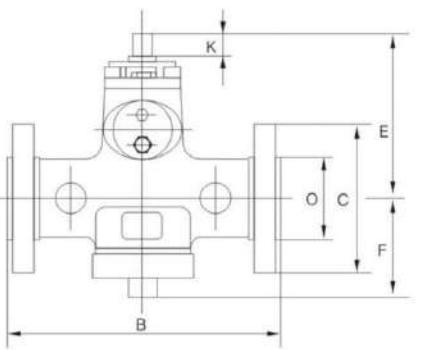
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## Class 150-300 Pressure Balanced Plug Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



Valve designed to API 6D AND API 599  
Valve tested to API 6D and API 598  
Face to face to API 6D and ANSI B16.10  
Flanged ends to ANSI B 16.5  
Screwed ends to ANSI B1.20.1

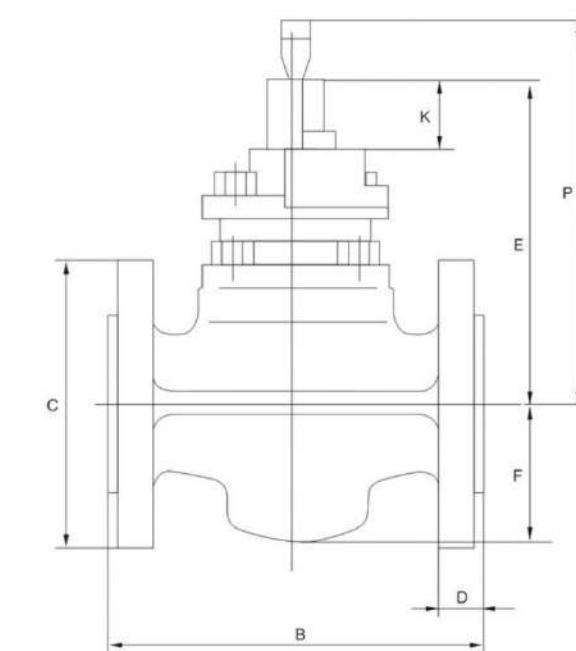


### Dimensions and Weights

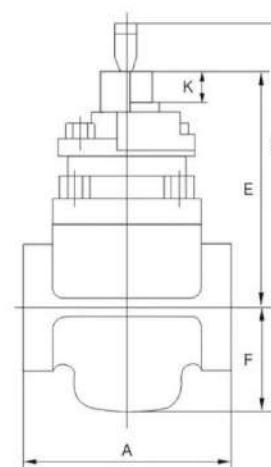
Class	Size	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"
150	A	89	133	133	229	229							
	B				178	191	203	229	267	292	330	256	
	C				152	178	191	229	279	343	406	483	
	D				19	22.4	23.8	23.8	25.4	29	31	32	
	E	104	127	127	174	174		219	235	220	370	550	480
	F	76	97	97	126	126		161	179	209	264	311	359
	O	34.9	42.9	42.9	73	92	105	127	157	216	270	324	381
	Weight(SW)	2.5	6.8	6.8	22	24.5							
300	Weight(RF)				19		33	52	80	158	245	350	
	B				191	216	241	283	305	403	419	457	502
	C				156	165	191	210	254	318	381	445	521
	D				20.6	22.2	25.4	28.3	31.8	36.5	41.3	47.6	50.8
	E				169	178		219	235	362			
	F				106	118		143	165	187	248	300	392
	O				73.0	92.1	105	127	157	216	270	324	381
	Weight(RF)				16	21		38	60	101	192	281	508
600	A	89	133	133	229	229							
	B	165	190	190	241	292		356	432	559	660	787	838
	C	95.3	117	117	156	195		210	273	356	419	508	559
	D	20.6	22.3	22.3	28.6	31.8		38.2	44.5	54.0	62.0	70.0	73
	E	104	127	127	176	176		217	232				
	F	76	97	97	116	116		143	165	548	298	313	375
	O	34.9	42.9	42.9	73	92	105	127	157	216	270	324	381
	Weight(SW)	2.5	6.8	6.8	22	24.5		41	51	168	284	412	488
300	Weight(RF)	5.3	9.0	9.0	49	54		46	85	254	406	584	620

## Class 150-300 Lubricated(Metal Seal) Plug Valve

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve,  
Power Station Valve, Oilfield Dedicated Valve Y-Strainer.



Valve designed to API 6D AND API 599  
Valve tested to API 6D and API 598  
Face to face to API 6D and ANSI B16.10  
Flanged ends to ANSI B 16.5  
Screwed ends to ANSI B1.20.1

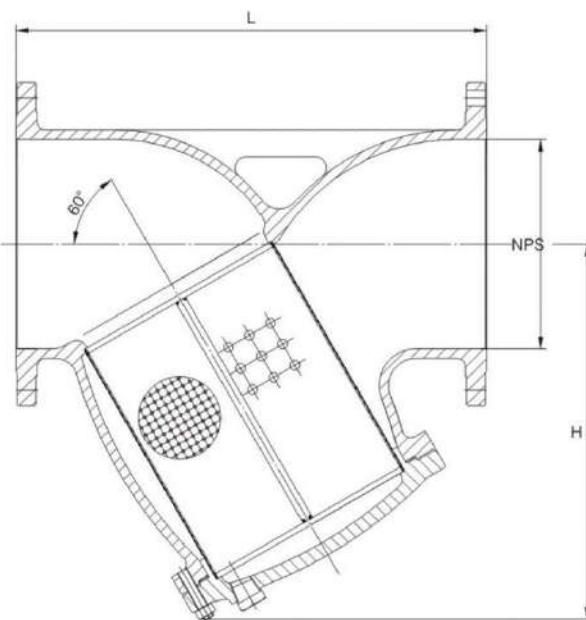


### Dimensions and Weights

Class	Size	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"
150	A	95	95	111	133	165	191	203					
	B	130	130	140	165	178	191	203	229	267	292	330	356
	C	89	98.4	108	127	152	178	191	229	279	348	406	483
	D	9.53	12.7	14.3	17.5	19	22.4	23.9	23.9	25.4	29	31	32
	E	100	100	114	152	152	176	208	230	293	327	364	
	F	48	48	49	70	71	87	102	114	160	179	219	289
	C	34.9	42.9	50.8	73	92	105	127	157	216	270	324	381
	P	157	157	171	210	225	265	297	324	414	449	483	
300	Weight(SW)	3.2	3.2	5.0	8.1	13	23	27					
	Weight(RF)	3.6	3.6	6.3	10	19	25	32	36	86	118	181	
	A	95	95	111	133	165	191	203					
	B	140	140	159	191	216	241	283	305	403	419	457	502
	C	95.3	117	124	156	165	191	210	254	318	381	445	521
	D	14.3	15.9	17.5	20.6	22.2	25.4	28.6	31.8	36.5	41.3	47.6	50.8
	E	100	100	114	144	176	207	229	245	283			
	F	37	37	49	65	81	102	114	140	159	194	194	260
300	O	34.9	42.9	50.8	73.0	92.1	105	127	157	216	270	324	381
	P	157	157	171	210	265	297	325	343	403	506	510	546
	Weight(SW)	3.2	3.2	4.5	8.2	13	23	27					
300	Weight(RF)	3.6	3.6	6.3	14	18	27	38	75	111	213	240	346

## API Y-Type Strainer

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve ,  
Power Station Valve ,Oilfield Dedicated Valve Y-Strainer.



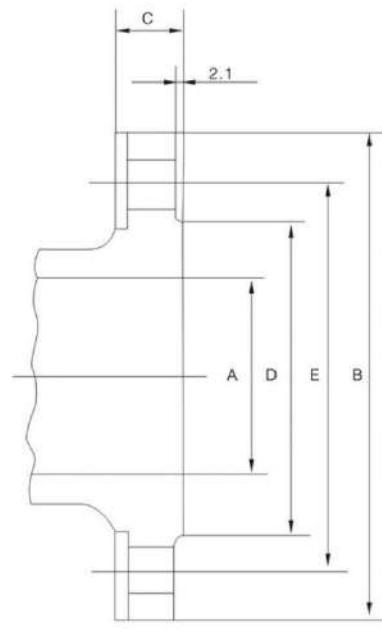
### Dimensions and Weights

Class	NPS	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"
150Lb	L	203	216	241	292	406	495	622	698	787	914
	H	205	230	255	300	390	490	550	640	720	800
300Lb	L	267		318	356	444	559	622	711	838	914
	H	235		285	320	420	510	600	690	770	850
600Lb	L	292		356	432	559	660	787	838	889	991
	H	255		305	340	440	530	650	740	790	880

### Dimensions

Nominal size	Bore A	Outside Dia B	Thickness of Flange C	Raised face Dia D	Dia of bolt circle E	Number of bolt holes	Dia of bolt
<b>Class 150.RF</b>							
1-1/2"	38.1	127	17.5	73	98.4	4	1/2"
2"	50.8	152.4	19.1	92.1	120.7	4	5/8"
2-1/2"	63.5	177.8	22.2	104.8	139.7	4	5/8"
3"	76.2	190.5	23.8	127	152.4	4	5/8"
4"	101.6	228.6	23.8	157.2	190.5	8	5/8"
5"	127	254	23.8	185.7	215.9	8	3/4"
6"	152.4	279.4	25.4	215.9	241.6	8	3/4"
8"	203.2	342.9	28.6	269.9	298.5	8	3/4"
10"	254	406.4	30.2	323.9	362	12	7/8"
12"	304.8	482.6	31.8	381	431.8	12	7/8"
14"	336.6	533.4	34.9	412.8	476.3	12	1"
16"	387.4	596.9	36.5	469.9	539.8	16	1"
18"	438.2	635	39.7	533.4	577.9	16	1-1/8"
20"	489	698.5	42.9	584.2	635	20	1-1/8"
24"	590.6	812.8	47.7	692.2	749.3	20	1-1/4"
26"	635	869.9	68.3	749.3	806.4	24	1-3/8"
28"	685.8	927.1	71.1	800.1	863.6	28	1-3/8"
30"	736.6	984.2	74.7	857.2	914.4	28	1-3/8"
32"	781.1	1060.4	80.8	914.4	977.9	28	1-5/8"
34"	831.9	1111.2	82.5	965.2	1028.7	32	1-5/8"
36"	876.3	1168.4	90.4	1022.3	1085.8	32	1-5/8"
38"	927.1	1238.2	87.4	1073.1	1149.3	32	1-5/8"
40"	977.9	1289	90.4	1123.9	1200.1	36	1-5/8"
42"	1022.4	1346.2	96.8	1193.8	1257.3	36	1-5/8"
<b>Class 300.RF</b>							
1-1/2"	38.1	155.6	20.6	73	114.3	4	3/4"
2"	50.8	165.1	22.2	92.1	127	8	5/8"
2-1/2"	63.5	190.5	25.4	104.8	149.2	8	3/4"
3"	76.2	209.5	28.6	127	168.3	8	3/4"
4"	101.6	254	31.8	157.2	200	8	3/4"
5"	127	279.4	34.9	185.7	235	8	3/4"
6"	152.4	317.5	36.5	215.9	269.9	12	3/4"
8"	203.2	381	41.3	269.9	330.2	12	7/8"
10"	254	444.5	47.6	323.9	387.4	16	1"
12"	304.8	520.7	50.8	381	450.9	16	1-1/8"
14"	336.6	584.2	54	412.8	514.4	20	1-1/8"
16"	387.4	647.7	57.2	469.9	571.5	20	1-1/4"
18"	431.8	711.2	60.3	533.4	628.7	24	1-1/4"
20"	482.5	774.7	63.5	584.2	685.8	24	1-1/4"
22"	533.4	838.2	66.5	641.4	743	24	1-1/2"
24"	534.2	914.4	69.9	692.2	812.8	24	1-1/2"
26"	635	971.5	79.2	749.2	876.3	28	1-3/4"
28"	685.8	1035	85.5	800.1	939.8	28	1-3/4"
30"	736.6	1092.2	91.9	857.2	996.9	28	1-7/8"
32"	781.1	1149.3	98.5	914.4	1054.1	28	2"
34"	831.9	1206.5	101.6	965.2	1104.9	28	2"
36"	876.3	1270	104.6	1022.3	1168.4	32	2-1/8"
38"	927.1	1168.4	107.9	1028.7	1092.2	32	1-5/8"
40"	977.9	1238.2	114.3	1085.8	1155.7	32	1-3/4"
<b>Class 600.RF</b>							
1-1/2"	38.1	155.6	22.2	730	114.3	4	3/4"
2"	50.8	165.1	25.4	92.1	127.0	8	5/8"
2-1/2"	63.5	190.5	28.6	104.8	149.2	8	3/4"
3"	76.2	209.6	31.8	127.0	168.3	8	3/4"

Integral Steel Flanges for Valves  
1-1/2"-24":ANSI B16.5 1981  
BS 1560 1958  
>24":MSS SP-44 1991



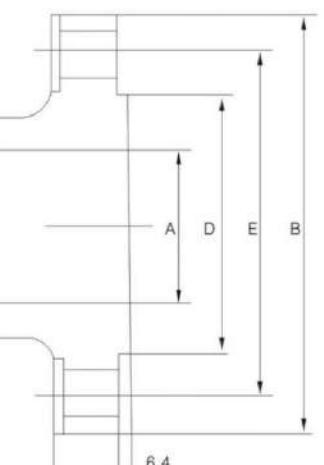
Class 150/300RF

## End Flange Dimensions

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

Dimensions

Nominal size	Bore A	Outside Dia B	Thickness of Flange C	Raised face Dia D	Dia of bolt circle E	Number of bolt holes	Dia of bolt
<b>Class 150.RF</b>							
4"	101.6	273.1	38.1	157.2	215.9	8	7/8"
5"	127.0	330.2	44.5	185.7	266.7	8	1"
6"	152.4	355.6	47.6	215.9	292.1	12	1"
8"	200.0	419.1	55.6	269.9	349.3	12	1-1/8"
10"	247.7	508.0	63.5	323.9	431.8	16	1-1/4"
12"	298.5	558.8	66.7	371.0	489.0	20	1-1/4"
14"	327.0	603.3	69.9	412.8	527.1	20	1-3/8"
16"	374.7	685.8	76.2	469.9	603.3	20	1-1/2"
18"	719.1	743.1	82.6	533.5	654.1	20	1-5/8"
20"	463.6	812.8	88.9	584.7	723.9	24	1-5/8"
24"	558.8	939.8	101.6	692.2	838.2	24	1-7/8"
26"	635.0	1016.0	107.9	749.3	914.4	28	2"
28"	685.8	1073.1	111.2	800.1	965.2	28	2-1/8"
30"	736.6	1130.3	114.3	857.3	1022.3	28	2-1/8"
32"	784.4	1193.8	117.3	914.4	1079.5	28	2-3/8"
34"	831.9	1244.6	120.6	965.2	1130.3	28	2-3/8"
36"	876.3	1314.4	123.9	1022.4	1193.8	28	2-5/8"
<b>Class 900.RF</b>							
1-1/2"	341.8	177.8	31.8	73.0	123.8	4	1"
2"	47.5	215.9	38.1	92.1	165.1	8	7/8"
2-1/2"	57.2	244.5	41.2	104.8	190.5	8	1"
3"	72.9	241.3	38.1	127.0	190.5	8	7/8"
4"	98.3	292.1	44.5	157.2	235.5	8	1-1/8"
5"	120.7	349.3	50.8	185.7	279.4	8	1-1/4"
6"	146.1	381.0	55.6	215.9	317.5	12	1-1/8"
8"	190.5	469.9	63.5	269.9	393.7	12	1-3/8"
10"	138.0	546.1	69.9	323.9	469.9	16	1-3/8"
12"	282.4	609.6	79.4	381.0	533.4	20	1-3/4"
14"	311.2	641.4	85.7	412.8	558.8	20	1-1/2"
16"	355.6	704.9	88.9	469.9	616.0	20	1-5/8"
18"	400.1	787.4	101.6	533.4	685.8	20	1-7/8"
20"	444.5	857.3	108.0	584.2	749.3	20	2"
24"	533.4	1041.4	139.7	692.2	901.7	20	2-1/2"
<b>Class 1500.RF</b>							
1-1/2"	34.8	177.8	31.8	73.0	123.8	4	1"
2"	47.5	215.9	38.1	92.1	165.1	8	7/8"
2-1/2"	57.2	244.5	41.2	104.8	190.5	8	1"
3"	69.9	266.7	47.8	127.0	203.2	8	1-1/8"
4"	92.0	311.2	54.0	157.2	241.3	8	1-1/4"
5"	111.0	374.7	73.2	185.5	292.1	8	1-1/2"
6"	136.5	393.7	82.6	215.9	317.5	12	1-3/8"
8"	177.8	482.6	92.1	269.9	393.7	12	1-5/8"
10"	223.0	584.2	108.0	323.9	482.2	12	1-7/8"
12"	263.5	673.1	124.0	371.0	571.5	16	2"
14"	288.9	749.3	133.4	412.8	635.0	16	2-1/4"
16"	330.2	825.5	146.1	469.9	704.9	16	2-1/2"
18"	371.5	914.4	162.1	533.4	774.7	16	2-3/4"
20"	415.9	984.3	177.8	584.2	831.9	16	3"
24"	498.5	1168.4	203.2	692.2	990.6	16	3-1/2"
<b>Class 2500.RF</b>							
1-1/2"	28.6	203.2	44.5	73.0	146.1	4	1-1/8"
2"	37.1	235.0	50.8	92.1	171.5	8	1"
2-1/2"	47.6	266.7	57.2	104.8	196.9	8	1-1/8"
3"	57.2	304.8	66.5	127.0	228.6	8	1-1/4"
4"	73.0	355.6	76.2	157.2	273.1	8	1-1/2"
5"	92.1	419.1	92.0	185.5	323.9	8	1-3/4"
6"	111.1	482.6	108.0	215.9	368.3	8	2"
8"	146.1	552.5	127.0	269.9	438.2	12	2"
10"	184.2	673.1	165.1	323.9	539.8	12	2-1/2"
12"	219.1	762.0	184.2	381.0	619.3	12	2-3/4"



Class 600/900/2500RF

American National Standard-Dimensions, in Inches

Class	Size	Ring No.	A	B	C	D	E	F	H
Class 300 400 600	1-1/2	R20	2.688	0.312	0.562	0.500	0.344	0.250	3.56
	2	R23	3.250	0.438	0.688	0.625	0.469	0.312	4.25
	2-1/2	R26	4.000	0.438	0.688	0.625	0.469	0.312	5.00
	3	R31	4.875	0.438	0.688	0.625	0.469	0.312	5.75
	3-1/2	R34	5.188	0.438	0.688	0.625	0.469	0.312	6.25
	4	R37	5.875	0.438	0.688	0.625	0.469	0.312	6.88
	5	R41	7.125	0.438	0.688	0.625	0.469	0.312	8.25
	6	R45	8.312	0.438	0.688	0.625	0.469	0.312	9.5
	8	R49	10.625	0.438	0.688	0.625	0.469	0.312	11.88
	10	R53	12.750	0.438	0.688	0.625	0.469	0.312	14.00
	12	R57	15.000	0.438	0.688	0.625	0.469	0.312	16.25
	14	R61	16.500	0.438	0.688	0.625	0.469	0.312	18.00
	16	R65	18.500	0.438	0.688	0.625	0.469	0.312	20.00
	18	R69	21.000	0.438	0.688	0.625	0.469	0.312	22.62
	20	R73	23.000	0.500	0.750	0.688	0.531	0.375	25.00
	24	R77	27.250	0.625	0.875	0.812	0.656	0.438	29.50



## Butt-Welding Ends (ANSI B16.25)

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

Nominal Pipe Size	Schedule Number or Wall	Outside Diameter A		Nominal Inside Diameter B		Machined Inside Diameter C		Nominal Wall Thickness	
		inch	mm	inch	mm	inch	mm	inch	mm
2-1/2	40	2.88	73.0	2.469	62.6	2.479	62.97	0.203	5.2
	80			2.323	59.0	2.351	59.72	0.276	7.0
	160			2.125	54.0	2.178	55.32	0.375	9.5
	XXS			1.771	45.0	1.868	47.45	0.552	14.0
3	40	3.50	88.9	3.068	77.9	3.081	78.26	0.216	5.5
	80			2.900	73.7	2.934	74.52	0.300	7.6
	160			2.624	66.7	2.692	68.38	0.438	11.1
	XXS			2.300	58.5	2.409	61.19	0.600	15.2
3-1/2	40	4.00	101.6	3.548	90.2	3.564	90.53	0.226	5.7
	80			3.364	85.4	3.402	86.41	0.318	8.1
4	40	4.50	114.3	4.026	102.3	4.044	102.72	0.237	6.0
	80			3.826	97.1	3.869	98.27	0.337	8.6
	120			3.624	92.1	3.692	93.78	0.438	11.1
	160			3.438	87.3	3.530	89.66	0.531	13.5
	XXS			3.152	80.1	3.279	83.29	0.674	17.1
5	40	5.56	141.3	5.047	128.1	5.070	128.78	0.258	6.6
	80			4.813	122.3	4.866	123.60	0.375	9.5
	120			4.563	115.9	4.647	118.03	0.500	12.7
	160			4.313	109.5	4.428	112.47	0.625	15.9
	XXS			4.063	103.3	4.209	106.91	0.750	19.0
6	40	6.62	168.3	6.065	154.1	6.094	154.79	0.280	7.1
	80			5.761	146.3	5.828	148.03	0.432	11.0
	120			5.501	139.7	5.600	142.24	0.562	14.3
	160			5.187	131.7	5.326	135.28	0.719	18.3
	XXS			4.897	124.5	5.072	128.83	0.864	21.9
8	40	8.62	219.1	7.981	202.7	8.020	203.71	0.322	8.2
	60			7.813	198.5	7.873	199.97	0.406	10.3
	80			7.625	193.7	7.709	195.81	0.500	12.7
	100			7.437	188.9	7.544	197.62	0.894	15.1
	120			7.187	182.5	7.326	186.08	0.719	18.3
10	140	10.75	273	7.001	177.9	7.163	181.94	0.812	20.6
	XXS			6.875	174.7	7.053	179.15	0.875	22.2
	160			6.813	173.1	6.998	177.75	0.906	23.0
	40			10.020	254.4	10.070	255.78	0.365	9.3
	60			9.750	247.6	9.834	249.78	0.500	12.7
12	80	12.75	323.8	9.562	242.8	9.670	245.62	0.594	15.1
	100			9.312	236.4	9.451	240.06	0.719	18.3
	120			9.062	230.2	9.232	234.49	0.844	21.4
	140			8.750	222.2	8.959	227.56	1.000	25.4
	160			8.500	215.8	8.740	222.00	1.125	28.6
	STD			12.000	304.8	12.053	306.15	0.375	9.5
	40			11.938	303.2	11.999	304.77	0.406	10.3
14	XS			11.750	298.4	11.834	300.58	0.500	12.7
	60			11.626	295.2	11.725	297.82	0.562	14.3
	80			11.374	288.8	11.505	292.23	0.688	17.5
	100			11.062	281.0	11.232	285.29	0.844	21.4
	120			10.75	273.0	10.959	278.36	1.00	25.4
	140			10.500	266.6	10.740	272.80	1.125	28.6
	160			10.126	257.2	10.413	264.49	1.312	33.3

## Butt-Welding Ends (ANSI B16.25)

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

Nominal Pipe Size	Schedule Number or Wall	Outside Diameter A		Nominal Inside Diameter B		Machined Inside Diameter C		Nominal Wall Thickness	
		inch	mm	inch	mm	inch	mm	inch	mm
14	STD	14.00	355.6	13.250	336.6	13.303	337.90	0.375	9.5
	40			13.124	333.4	13.192	335.08	0.438	11.1
	XS			13.000	330.2	13.084	332.33	0.500	12.7
	60			12.812	325.4	12.920	328.17	0.594	15.1
	80			12.500	317.6	12.646	321.21	0.750	19.0
	100			12.124	308.0	12.318	321.88	0.938	23.8
	120			11.812	300.0	12.044	305.92	1.094	27.8
	140			11.500	292.0	11.771	298.98	1.250	31.8
	160			11.188	284.2	11.498	292.05	1.406	35.7

## Butt-Welding Ends (ANSI B16.25)

Gate Valve, Globe Valve, Plug Valve, Check Valve, Butterfly Valve, Power Station Valve, Oilfield Dedicated Valve Y-Strainer.

CLASS	SIZE		Dimensions(mm)						Weight(kg)	
	mm	in.	L(RF)	L(RTJ)	L(BW)	H	H1	W	R F	BW
150LBS	50	2	178	191	216	400	—	200	19	16
	65	2-1/2	190	203	241	435	—	220	25	21
	80	3	203	216	283	500	—	250	35	31
	100	4	229	241	305	590	—	280	48	43
	125	5	254	267	381	725	—	300	63	58
	150	6	267	279	403	775	—	300	80	75
	200	8	292	305	419	965	1000	350	125	113
	250	10	330	343	457	1185	1225	400	185	173
	300	12	356	368	502	1380	1425	450	280	223
	350	14	381	394	572	1550	1590	500	386	316
	400	16	406	418	610	1740	1780	550	495	395
	450	18	432	445	660	1960	2000	600	590	520
	500	20	457	470	711	2175	2215	700	750	630
	600	24	508	521	813	2565	2605	750	995	905
	650	26	559	—	864	—	2800	—	1500	1380
	700	28	610	—	914	—	3050	—	1910	1800
	750	30	610	622	914	—	3130	—	2350	2070
	800	32	711	—	965	—	3280	—	2500	2250
	900	36	711	724	1016	—	3720	—	3450	3200
	1000	40	813	—	1067	—	4200	—	4520	—
	1050	42	813	—	1143	—	4400	—	4950	—
	1200	48	1067	—	1371	—	5000	—	6300	—
	1500	60	—	—	—	—	—	—	—	—

CLASS	SIZE		Dimensions(mm)						Weight(kg)	
	mm	in.	L(RF)	L(RTJ)	L(BW)	H	H1	W	R F	BW
300LBS	50	2	216	232	216	425	—	200	25	22
	65	2-1/2	241	257	241	445	—	220	32	28
	80	3	283	298	283	535	—	250	47	41
	100	4	305	321	305	620	—	280	72	64
	125	5	381	397	381	750	—	300	105	95
	150	6	403	419	403	800	—	350	128	115
	200	8	419	435	419	1005	1040	400	212	200
	250	10	457	473	457	1235	1275	450	330	280
	300	12	502	518	502	1440	1480	500	430	370
	350	14	762	778	762	1620	1660	550	700	630
	400	16	838	854	838	1805	1845	600	930	860
	450	18	914	930	914	2080	2030	700	1135	935
	500	20	991	1010	991	2200	2260	750	1350	1050
	600	24	1143	1165	1143	2580	2640	900	2140	1650
	650	26	1245	1270	1245	—	2850	—	2950	2450
	700	28	1346	1372	1346	—	3100	—	3350	2850
	750	30	1397	1422	1397	—	3200	—	3600	3100
	800	32	1524	1553	1524	—	3350	—	4380	3800
	900	36	1727	1756	1727	—	3800	—	6000	5300
	1000	40	1955	—	1955	—	4300	—	7970	—
	1050	42	2032	—	2032	—	4500	—	9510	—
	1200	48	2286	—	2286	—	5150	—	12600	—

## Our Production

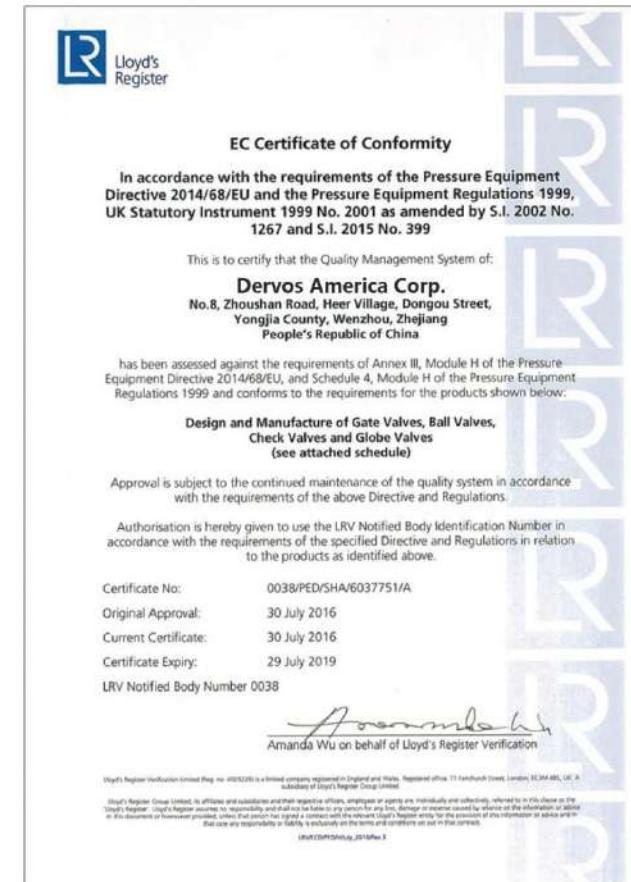
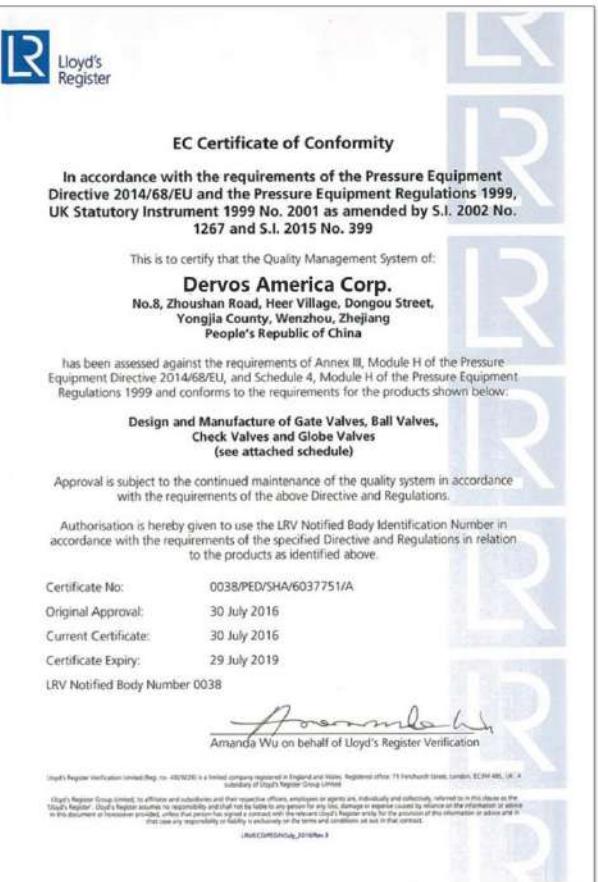
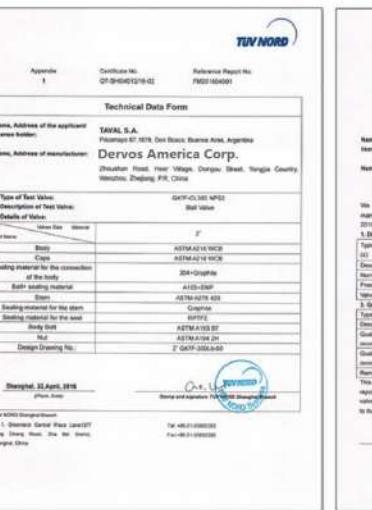
Dervos owns the workshop for cast steel/stainless steel/duplex steel gate, globe, check and ball valves.

We purchase high-quality castings and have professional engineer and skilled workers to take charge of the whole process from machining, drilling, pickling, polishing to assembling. After pressure testing, the products will get through out-looking rechecking/defect repairing before painting/coating. When all this process is done, the products need to be inspected strictly by our inspectors before package and delivery.

Our most stable support is come from our skilled workers. Because of their diligence and hard-working, our workshop can fulfill the production on time and keep the quality good always.



## Our Qualification



## Our Inspection

For each order, our inspection team not only take part in the final inspection, they also guard each procedure to avoid defect and assure of the delivery time. Our standard inspection of QA procedure – ENS 3.1.

The details of each inspection and some points during procedure will be presented on Dervos' inspection report after final inspection.

Our inspection is acted according to international standard, All pressure tests are in conformity with API598, API6D and DIN3230 standards. Additionally, we also adopts some special tests in accordance with API6D. For example, low pressure air test, DBB test and DPE test. We takes the test under full operating pressure, this is the only test to find the possible leakage at the connection place of valve body and valve cover, valve stem, accessories, lubricating grease injection device etc.



**INSPECTION REPORT**

Client: TAVAL S.A.

Client order No: 2104246-1

Factory: DERVOS

Inspector: Jade Lin

Report date: 23<sup>rd</sup> January 2013

**Dervos America Corp.**

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**1. Product Description and amount of inspection**

Item	Product Description	Quantity (PCs)	Order	Inspected
1	Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F	100	10	
2	Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F	50	5	
3	Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F	40	6	
-	-	-	-	-
Total:		210	21	

**Inspection place & Date or Period:** Wuxing industrial Area Cuihu Town, Wenzhou City, Zhejiang Province, China. Feb. 01, 2013

**Results of inspection:**  Satisfactory  Unsatisfactory

**Non Conformities Reports (NCR):** N/A

**Stage of inspection:**  Before manufacturing  During manufacturing  Final  Packing

**Kind of inspection:**  Pre-inspection meeting  Witnessing tests  Material inspection  Document review  Expediting & vendor assessment  Packing (for details see continuation sheet)

**Main Conclusions & Remarks:** (for details see continuation sheet)

**Stamping:**  No  Yes

**Refer to the inspection details as hereinafter:**

2. Inspection activities

2.1. Dimensional check Dimensional inspection before, inspector first check all measuring caliper, found that they are qualified after.

Per client's request, inspector performed dimension check. Details see below. Inspector: Inspector Photos

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**DERVOS AMERICA**  
VALVES AND FLUID MANAGEMENT

Items 1: Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

Note: For the project of the 6 only products, the dimensional check is acceptable, the data in the list for reference only.

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**DERVOS AMERICA**  
VALVES AND FLUID MANAGEMENT

Items 1: Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

Note: For the project of the 6 only products, the dimensional check is acceptable, the data in the list for reference only.

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**DERVOS AMERICA**  
VALVES AND FLUID MANAGEMENT

Items 1: Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

Note: For the project of the 6 only products, the dimensional check is acceptable, the data in the list for reference only.

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**DERVOS AMERICA**  
VALVES AND FLUID MANAGEMENT

Items 1: Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

Note: For the project of the 6 only products, the dimensional check is acceptable, the data in the list for reference only.

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

DERVOS YOUR BEST PARTNER OF VALVES,FLANGES AND PIPE FITTINGS

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**DERVOS AMERICA**  
VALVES AND FLUID MANAGEMENT

Items 1: Gate valve, RF connection, 2", 300LB, A216 WCB, Trim 1F

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

Note: For the project of the 6 only products, the dimensional check is acceptable, the data in the list for reference only.

Items 2: Gate valve, RF connection, 3", 300LB, A216 WCB, Trim 10F

Items 3: Gate valve, RF connection, 6", 300LB, A216 WCB, Trim 10F

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