

CATALOGUE



METINCA VALVES®

CAST STEEL VALVE

INTRODUCTION

ABOUT US

PT Metinca Prima Industrial Works, Plant One was founded 1986 at its present on site 0.6 Ha at Jl. Rawa Sumur Barat 6 Jakarta Industrial Estate Pulogadung Jakarta 13930-Indonesia and Plant Two was founded 2002 at its present site 2.02 Ha at Jl. Setia Darma No. 35 Tambun Selatan, Bekasi 17510-Indonesia (about 20 Km from Plant One)

PT Metinca Prima Industrial Works, on year 2010 established valve's Division. Started to manufacture valve prototype on August 2011 were tested and approved by Chevron Pacific Indonesia after several month field tested .

Our capabilities to manufacture valve currently for Gate Valve, Globe Valve and Swing Check Valve with DN 50 (NPS 2") through DN 900 (NPS 36") with pressure ratings class PN 20 (Class 150) up to PN 150 (Class 900).

MANAGEMENT ORGANISATION

Chairman	: Mr. Muchsin Mohdar
Commisioner	: Dr.Ing,- Ilham A. Habibie
Commisioner	: Drs. Said Umar
President Director	: Mr. Hasan Naser
Director	: Ir. Awad Umar

HOW TO ORDER

Care should be taken to select the most suitable steel valve for your service(s). Exact specification of each valve should be made to avoid ambiguity when requesting quotations or ordering the product.

Size

Nominal size of the pipeline into which the valve will be placed must be determined.

Valve Material

The following facts should be considered in determining the correct valve material.

- The media to be controlled.
- The temperature of the media.
- The possible extraordinary stresses affecting the valve.
- Safety standards and/or piping codes.

Type of Valve

Type of valves must be determine.

Pressure/Temperature Rating

Please pay careful attention that the pressure/temperature are in keeping with the requirements of the service

Valve End Connections

Valve end connection should be given in determining the method of connecting the valve in the pipeline

CAUTION:

When servicing, disassembling or disposing of valves containing asbestos gaskets or packing, avoid breathing dust or fibers from these parts. Disposal of asbestos and asbestos related products should comply with local, state and federal laws

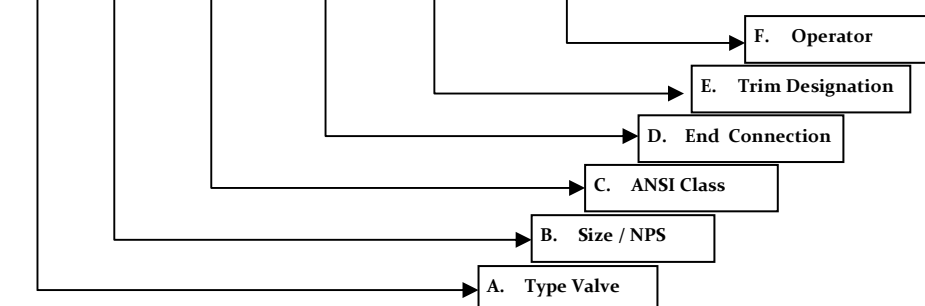
Ordering Information

Designate the valve size and the complete catalog number, including prefix and suffix letters, when applicable, to identify regular cataloged items as described on the following pages.

Any special requirements such as Gear operation, Motor operation, Hydraulic or Pneumatic Cylinder operation, Anti-friction bearing yoke sleeve, By-Pass of drain, etc. must also be specified on purchas

Examples : for order Gate Valve with size 10 inch class 300 trim 8, RF flanged end with Handwheel operated

GT 10 300 RF TD-8 HW



A	
Valve Type	Code
Gate	GT
Globe	GL
Swing Check	SC

B	
Size / NPS	
2 Inch up to 36 Inch	

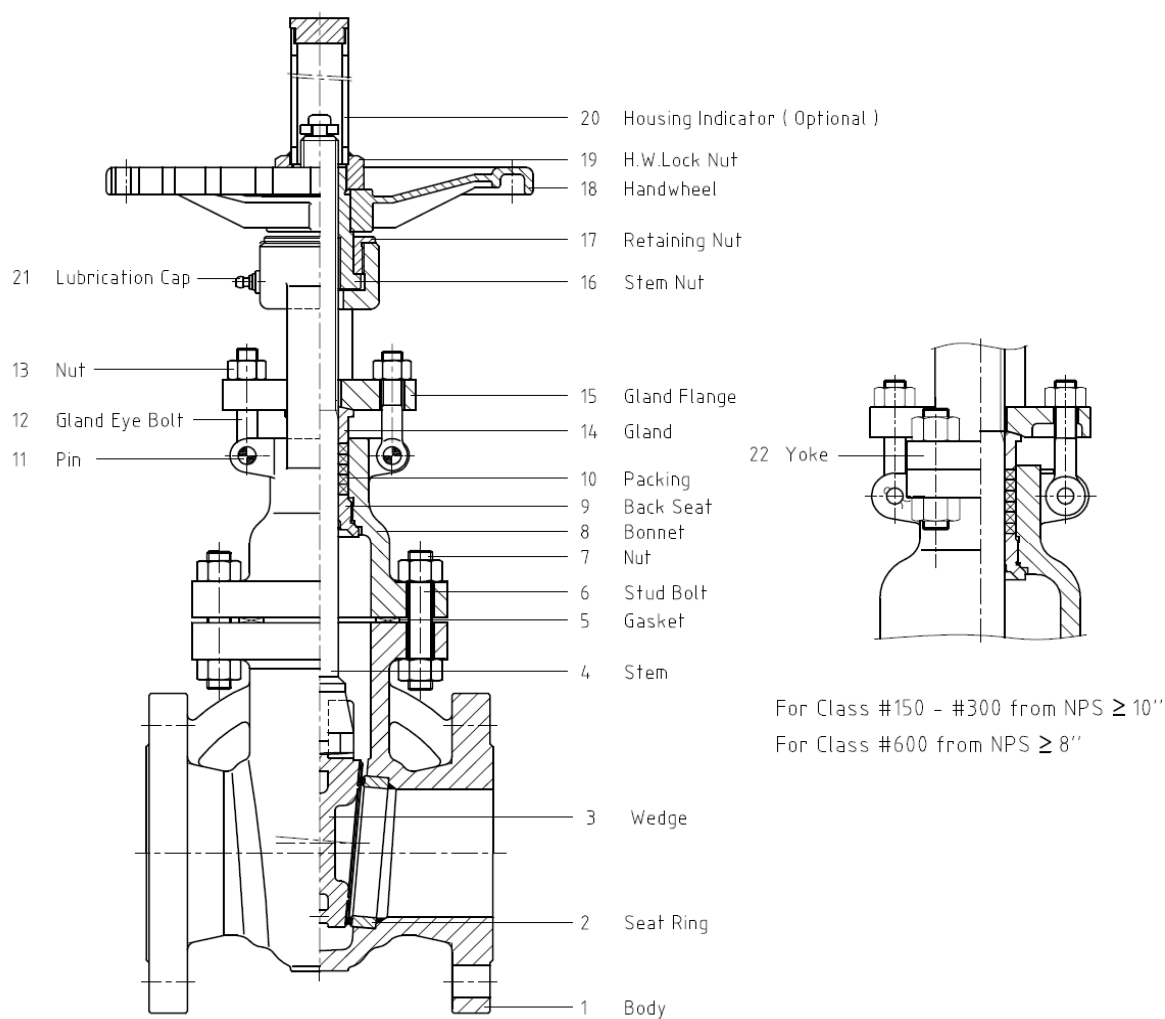
C	
ANSI Class Rating	
#150. #300. #600 #900	

D	
End Conn	Code
Raised Face	RF
Flat Face	FF
Ring Type Joint	RTJ
Butt Weld	BW

E	
Trim Designation	
TD-1 . TD-5. TD-8. TD-9 (see page... for information)	

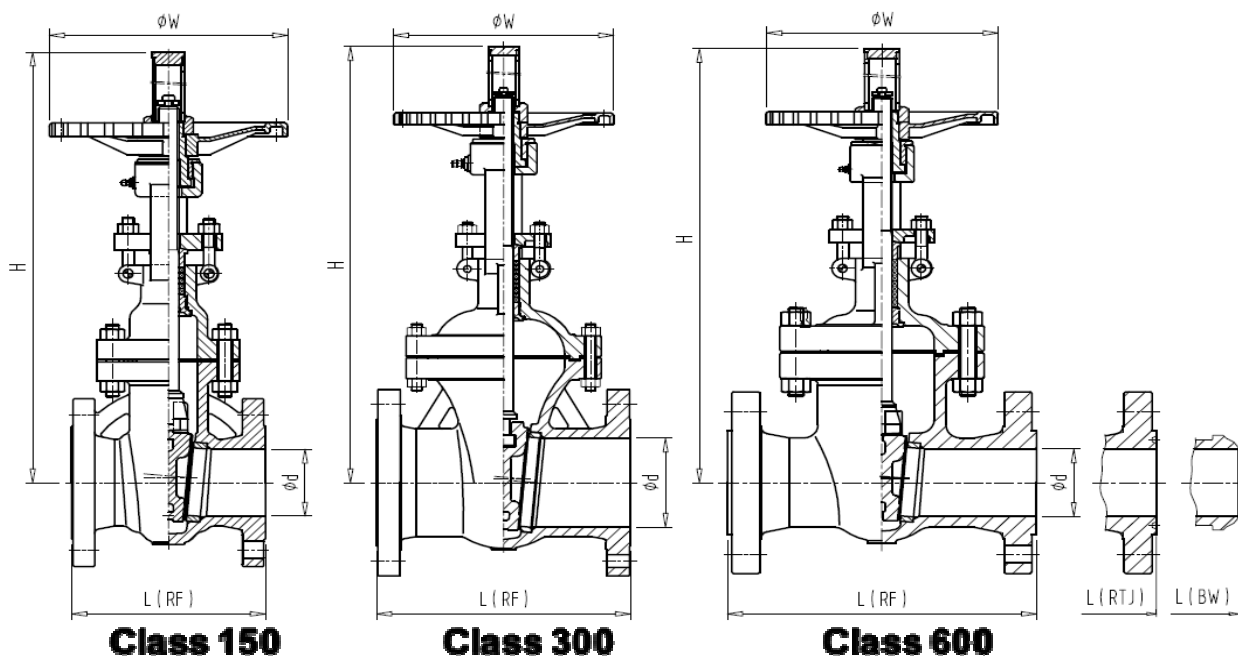
F	
Operator	Code
Hand Wheel	HW
Gear Operated	GO
Other	OT

MAJOR FEATURE GATE VALVE



Design and Manufacturing Standards	
Basic Design	API 600, ASME B16.34
Face to Face	ASME B16.10
Flange End	ASME B16.5
Butt Weld End	ASME B16.25
Wall Thickness	API 600
Inspection & Testing	API 598

GATE VALVE DIMENSIONS



API 600 Gate Valve Class 150

Dimensions (mm)

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	178	191	216	51	460	220	19
3	80	203	216	283	76	549	250	33
4	100	229	241	305	102	674	300	49
6	150	267	279	403	152	840	325	77
8	200	292	305	419	204	1040	350	123
10	250	330	343	457	254	1230	400	188
12	300	356	368	502	305	1429	500	287

API 600 Gate Valve Class 300

Dimensions (mm)

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	216	232	216	51	493	220	26
3	80	282	298	282	76	594	250	49
4	100	305	321	305	102	704	300	75
6	150	403	419	403	152	863	350	133
8	200	419	435	419	204	1068	400	207
10	250	457	473	457	254	1286	500	332

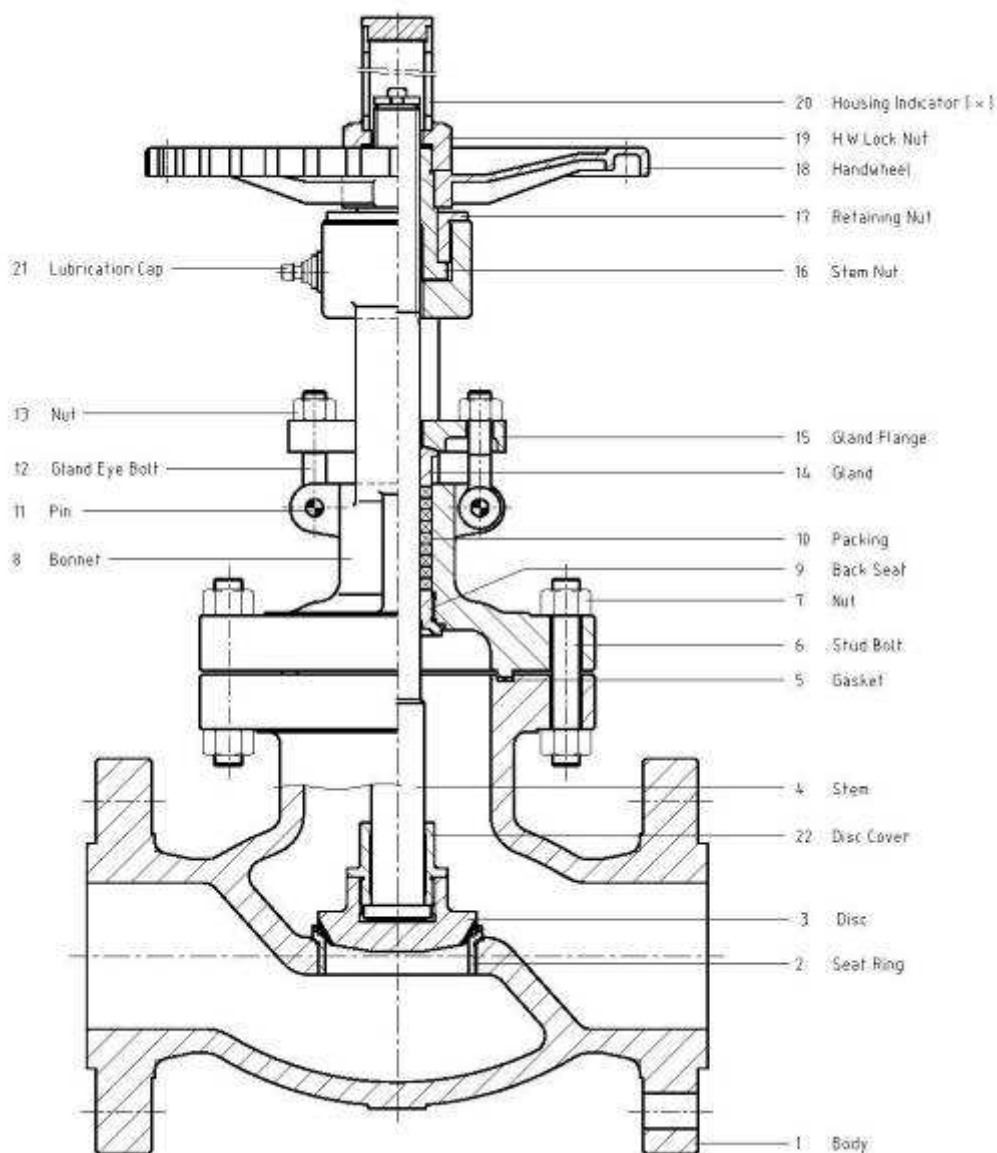
API 600 Gate Valve Class 600

Dimensions (mm)

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	292	295	292	51	495	220	34
3	80	356	359	356	76	619	300	62
4	100	432	435	432	102	741	350	109
6	150	559	562	559	152	948	450	270
8	200	660	663	660	204	1109	500	454

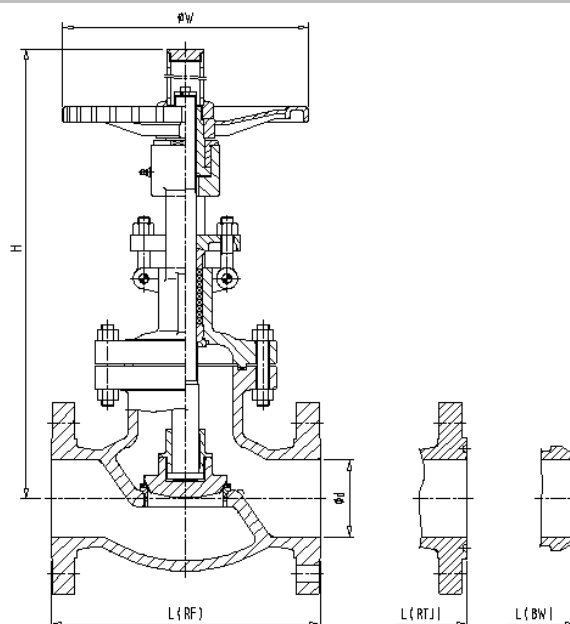
Gate Valve Trim Designation								
No	Name of Part	CAST CARBON STEEL					STAINLESS STEEL	
		Trim 1 (TD-1)	Trim 5 (TD-5)	Trim 8 (TD-8)	Trim 9 (TD-9)	Trim 10 (TD-10)	CF8M (TD-316)	CF8 (TD- 304)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
2	Seat Ring	A105 + 13Cr	A105 + STL	A105 + STL	A105 + Monel	A105 + SS316	A351 CF8M	A351 CF8
3	Wedge	A216 WCB + 13Cr	A216 WCB + STL	A216 WCB + 13Cr	A216 WCB + Monel	A216 WCB+SS316	A351 CF8M	A351 CF8
4	Stem	A182 F6a	A182 F6a	A182 F6a	Monel	A182 F316	A182 F316	A182 F304
5	Gasket	SS316 + Graphite Spiral Wound						
6	Stud Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
7	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
9	Back Seat	A276 410	A276 410	A276 410	Monel	A182 F316	A182 F316	A182 F304
10	Packing	Graphite						
11	Pin	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
12	Gland Eye Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
13	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
14	Gland	A276 410	A276 410	A276 410	A276 410	A276 410	SS316	SS304
15	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
16	Stem Nut	A439 D2 / AB2						
17	Retaining Nut	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
18	Handwheel	A216 WCB						
19	H.W. Lock Nut	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
20	Houshing Indicator *	A106 Gr A						
21	Lubrication Cap	Steel						
22	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
* Optional								

MAJOR FEATURE GLOBE VALVE



Design and Manufacturing Standards	
Basic Design	BS 1873, ASME B16.34
Face to Face	ASME B16.10
Flange End	ASME B16.5
Butt Weld End	ASME B16.25
Wall Thickness	API 600
Inspection & Testing	API 598

GLOBE VALVE DIMENSIONS



BS 1873 Globe Valve Class 150

Dimensions (mm) & Weight

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	203	216	203	51	431	220	21
3	80	241	254	241	76	500	300	39
4	100	292	305	292	102	568	325	60
6	150	406	419	406	152	721	350	102
8	200	495	508	495	204	866	400	182
10	250	622	635	622	254	1009	450	295
12	300	699	711	699	305	1114	500	410

BS 1873 Globe Valve Class 300

Dimensions (mm) & Weight

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	267	283	267	51	460	220	30
3	80	318	333	318	76	534	300	61
4	100	356	371	356	102	626	325	97
6	150	444	460	444	152	816	400	172
8	200	559	575	559	204	949	450	265
10	250	622	638	622	254	1063	500	440

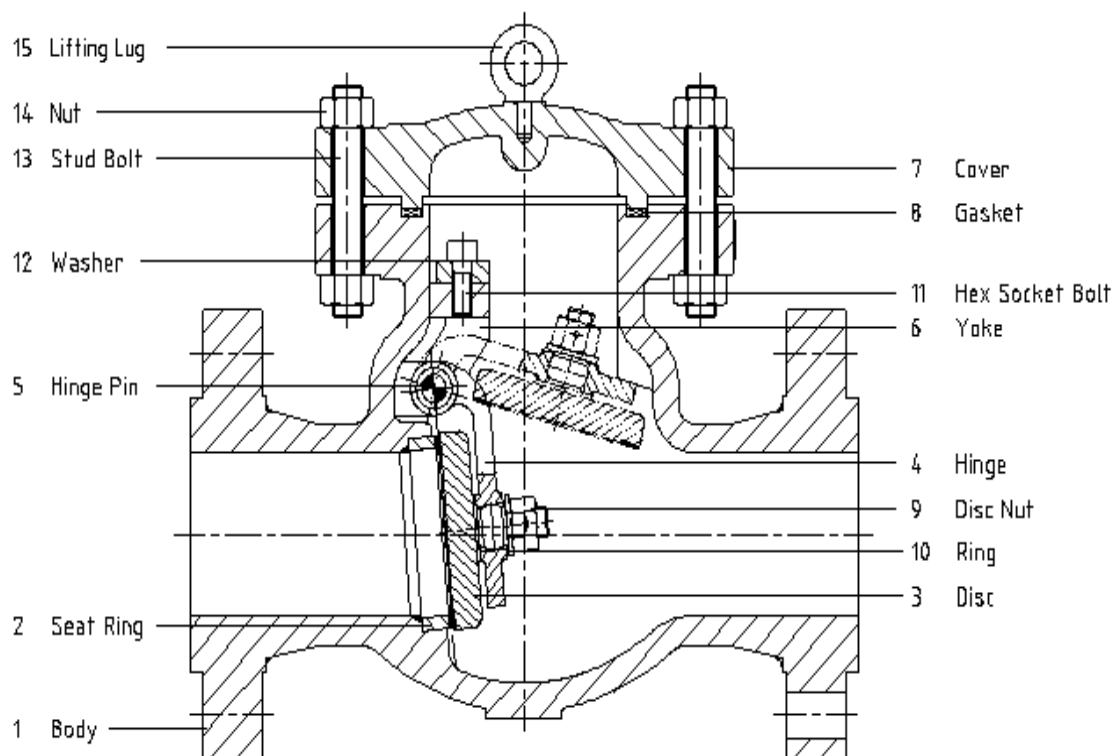
BS 1873 Globe Valve Class 600

Dimensions (mm) & Weight

Size		L			d	H	W	Approx Weight (kg)
NPS	DN	RF	RTJ	BW				
2	50	292	295	292	51	473	250	43
3	80	356	359	356	76	584	325	78
4	100	432	435	432	102	675	350	136
6	150	559	562	559	152	907	450	281
8	200	660	663	660	204	1015	500	442

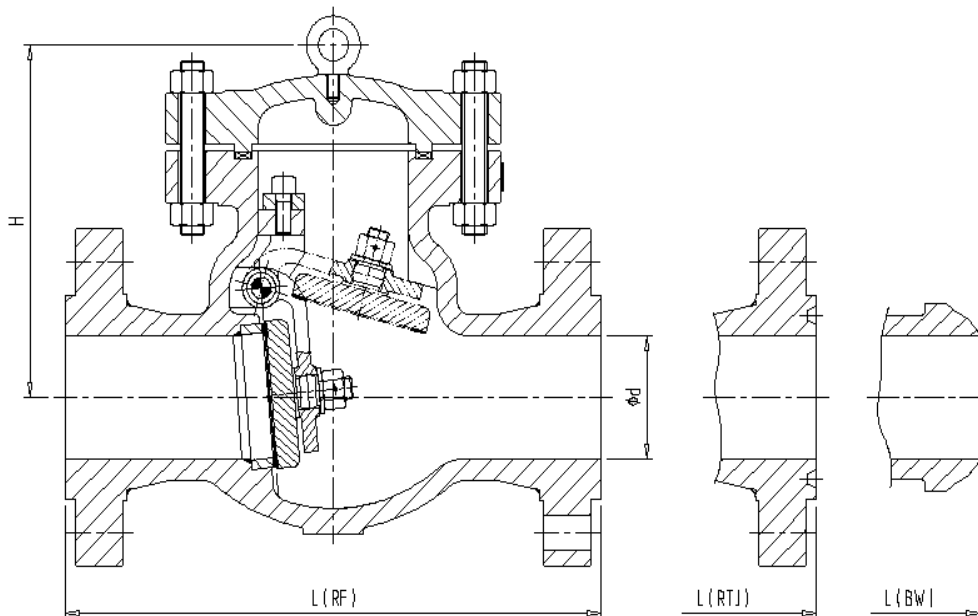
Globe Valve Trim Designation								
No	Name of Part	CAST CARBON STEEL					STAINLESS STEEL	
		Trim 1 (TD-1)	Trim 5 (TD-5)	Trim 8 (TD-8)	Trim 9 (TD-9)	Trim 10 (TD-10)	CF8M (TD-316)	CF8 (TD- 304)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
2	Seat Ring	A105 + 13Cr	A105 + STL	A105 + STL	A105 + Monel	A105 + SS316	A351 CF8M	A351 CF8
3	Disc	A216 WCB + 13Cr	A216 WCB + STL	A216 WCB + 13Cr	A216 WCB + Monel	A216 WCB+SS316	A351 CF8M	A351 CF8
4	Stem	A182 F6a	A182 F6a	A182 F6a	Monel	A182 F316	A182 F316	A182 F304
5	Gasket	SS316 + Graphite Spiral Wound						
6	Stud Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
7	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
9	Back Seat	A276 410	A276 410	A276 410	Monel	A182 F316	A182 F316	A182 F304
10	Packing	Graphite						
11	Pin	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
12	Gland Eye Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
13	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
14	Gland	A276 410	A276 410	A276 410	A276 410	A276 410	SS316	SS304
15	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
16	Stem Nut	A439 D2 / AB2						
17	Retaining Nut	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
18	Handwheel	A216 WCB						
19	H.W. Lock Nut	A29 1035	A29 1035	A29 1035	A29 1035	A29 1035	SS316	SS304
20	Houshing Indicator*	A105						
21	Lubrication Cap	Steel						
22	Disc Cover	A276 410	A276 410	A276 410	Monel	SS316	SS316	SS304
*Optional								

MAJOR FEATURE SWING CHECK VALVE



Design and Manufacturing Standards	
Basic Design	API 6D, ASME B16.34
Face to Face	ASME B16.10
Flange End	ASME B16.5
Butt Weld End	ASME B16.25
Wall Thickness	API 600
Inspection & Testing	API 598

SWING CHECK VALVE DIMENSIONS



API 6D Check Valve Class 150

Dimensions (mm) & Weight

Size		L			d	H	Approx Weight (kg)
NPS	DN	RF	RTJ	BW			
2	50	203	216	203	51	161	17
3	80	241	254	241	76	192	28
4	100	292	305	292	102	224	48
6	150	356	368	356	152	271	79
8	200	495	508	495	204	327	133
10	250	622	635	622	254	378	266
12	300	699	711	699	305	431	347

API 6D Check Valve Class 300

Dimensions (mm) & Weight

Size		L			d	H	Approx Weight (kg)
NPS	DN	RF	RTJ	BW			
2	50	267	283	267	51	177	21
3	80	318	333	318	76	213	43
4	100	356	371	356	102	247	66
6	150	444	460	444	152	296	125
8	200	533	549	533	204	355	195
10	250	622	638	622	254	410	296

API 6D Check Valve Class 600

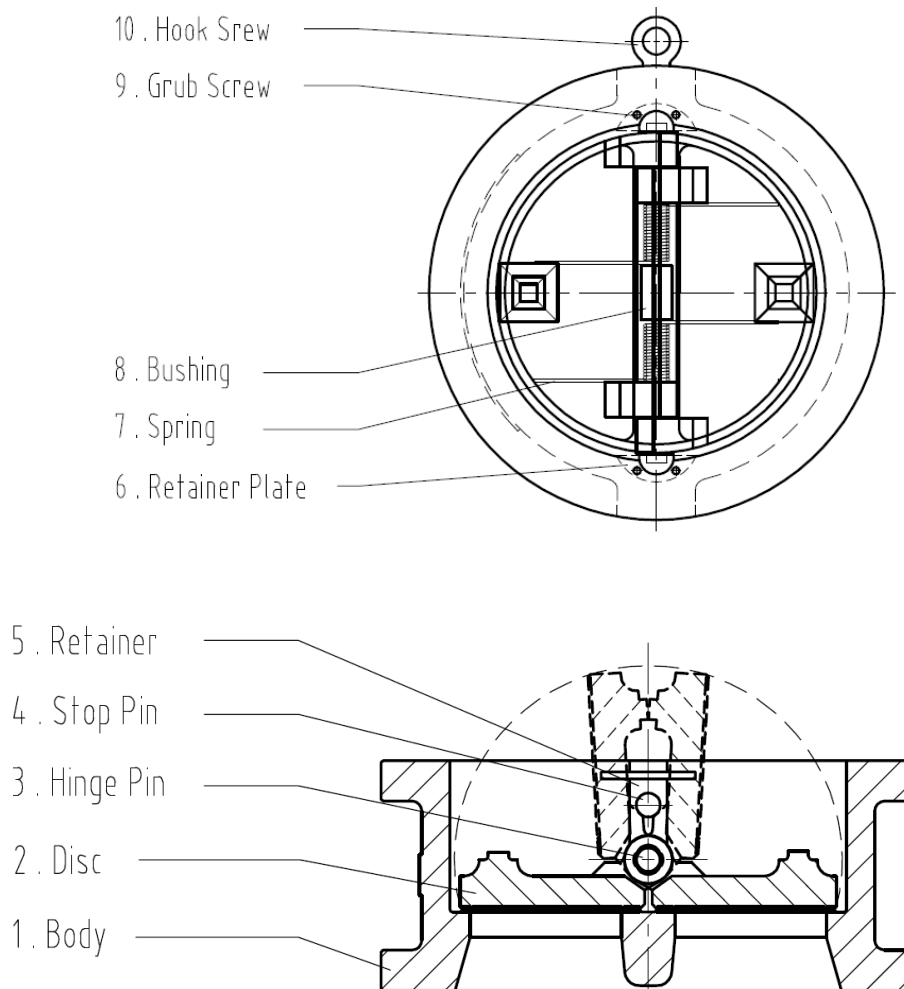
Dimensions (mm) & Weight

Size		L			d	H	Approx Weight (kg)
NPS	DN	RF	RTJ	BW			
2	50	292	295	292	51	187	34
3	80	356	359	356	76	224	75
4	100	432	435	432	102	277	96
6	150	559	562	559	152	348	227
8	200	660	663	660	204	407	346

SWING CHECK VALVE TRIM DESIGNATION

Check Valve Trim Designation								
No	Name of Part	CAST CARBON STEEL					STAINLESS STEEL	
		Trim 1 (TD-1)	Trim 5 (TD-5)	Trim 8 (TD-8)	Trim 9 (TD-9)	Trim 10 (TD-10)	CF8M (TD-316)	CF8 (TD- 304)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
2	Seat Ring	A105 + 13Cr	A105 + STL	A105 + STL	A105 + Monel	A105 + SS316	A351 CF8M	A351 CF8
3	Disc	A216 WCB + 13Cr	A216 WCB + STL	A216 WCB + 13Cr	A216 WCB + Monel	A216 WCB+SS316	A351 CF8M	A351 CF8
4	Hinge	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
5	Hinge Pin	SS304	SS304	SS304	Monel	SS316	SS316	SS304
6	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
7	Cover	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8
8	Gasket	SS316 + Graphite Spiral Wound						
9	Disc Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
10	Ring	SS304						
11	Hex Sock Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
12	Washer	SS304						
13	Stud Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8M	A193 B8
14	Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 2H	A194 8M	A194 8
15	Lifting Lug	Steel						

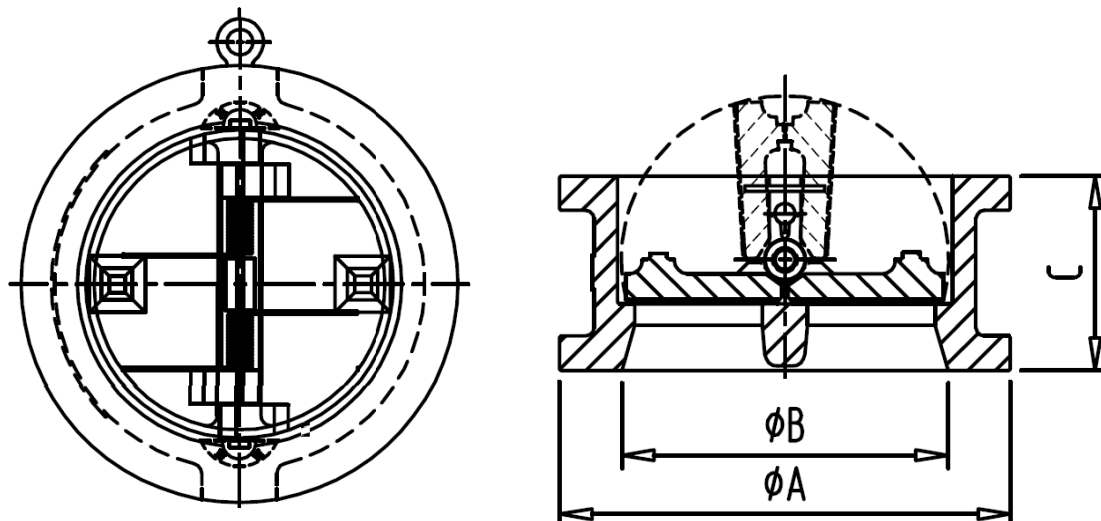
MAJOR FEATURE WAFER CHECK VALVE



Design and Manufacturing Standards	
Basic Design	API 6D
Face to Face	API 594
Flange End	ASME B16.5
Wall Thickness	API 600
Inspection & Testing	API 598

**METINCA VALVES®**

WAFER CHECK VALVE DIMENSIONS



API 6D Wafer Check Valve Class 150					
Dimensions (mm) & Weight		A	B	C	Approx Weight (kg)
Size					
NPS	DN				
2	50	105	49	60	3
3	80	137	74	73	6
4	100	175	100	73	10
6	150	222	150	98	16
8	200	279	201	127	36
10	250	340	252	146	52
12	300	410	303	181	97

API 6D Wafer Check Valve Class 300					
Dimensions (mm) & Weight		A	B	C	Approx Weight (kg)
Size					
NPS	DN				
2	50	111	49	60	3
3	80	149	74	73	8
4	100	181	100	73	11
6	150	251	150	98	20
8	200	308	201	127	40
10	250	362	252	146	56
12	300	422	303	181	98

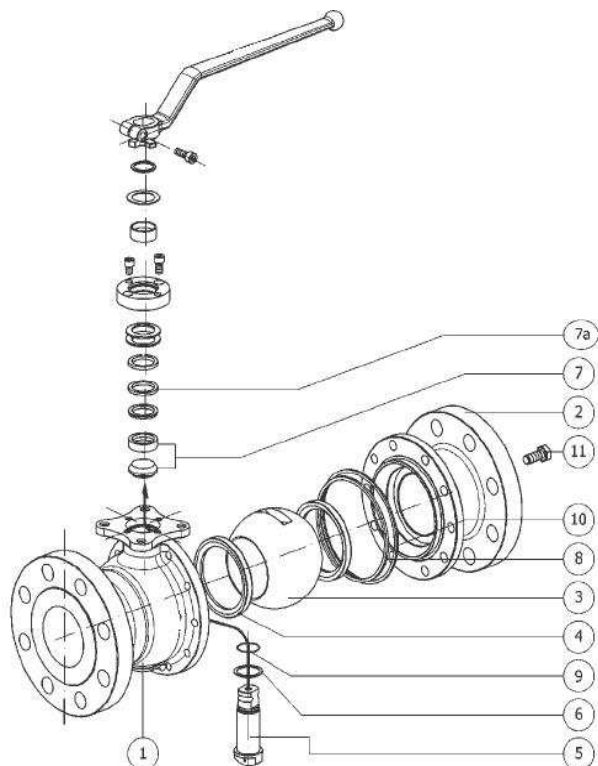
API 6D Wafer Check Valve Class 600					
Dimensions (mm) & Weight		A	B	C	Approx Weight (kg)
Size					
NPS	DN				
2	50	111	49	60	3
3	80	149	74	73	8
4	100	194	100	79	13
6	150	267	150	137	36
8	200	321	201	165	72
10	250	400	252	213	118
12	300	457	303	229	164



WAFER CHECK VALVE TRIM DESIGNATION

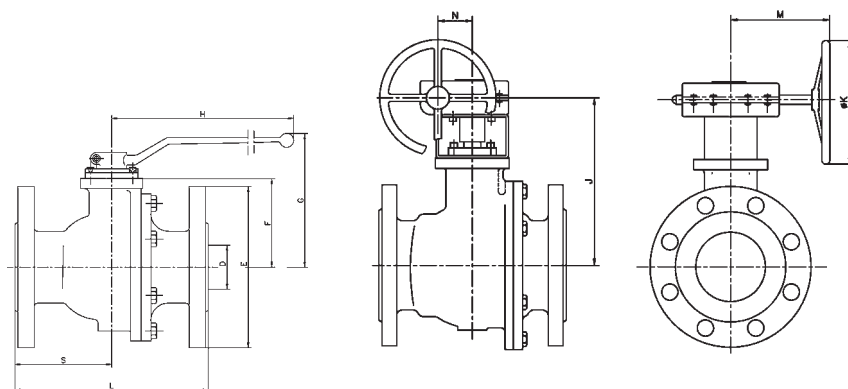
Wafer Check Valve Trim Designation								
No	Name of Part	CAST CARBON STEEL					STAINLESS STEEL	
		Trim 1	Trim 5	Trim 8	Trim 9	Trim 10	CF8M (316)	CF8 (304)
1	Body	A216 WCB + 13Cr	A216 WCB + STL	A216 WCB + 13Cr	A216 WCB + Monel	A216 WCB+SS316	A351 CF8M	A351 CF8
2	Disc	A216 WCB + 13Cr	A216 WCB + STL	A216 WCB + 13Cr	A216 WCB + Monel	A216 WCB+SS316	A351 CF8M	A351 CF8
3	Hinge Pin	SS304	SS304	SS304	SS304	SS316	SS316	SS304
4	Stop Pin	SS304	SS304	SS304	SS304	SS316	SS316	SS304
5	Retainer	SS304	SS304	SS304	SS304	SS316	SS316	SS304
6	Retainer Plate	SS304	SS304	SS304	SS304	SS316	SS316	SS304
7	Spring	Inconel X750						
8	Bushing	SS304	SS304	SS304	SS304	SS316	SS316	SS304
9	Grub Screw	ASTM A193 B7						
10	Hook Screw	ASTM A193 B7						

FULL BORE - FLOATING



Standard materials

Item	Description	Figure	
1-2	Body	A216 WCB	A351CF8M
3	Ball	A351CF8M	
4	Seats	PTFE (T) PTFE+FG (R) PTFE + CG (S)	
5	Stem	AISI 316 A182 F51	
6	Stem seal	PTFE + CG (S)	
7	Packing 1	PTFE (T)	
7a	Packing 2	Graphite	
8	Seal body 1	PTFE (T)	
9	Oring stem	Viton®	
10	Seal body 2	Graphite	
11	Bolts body	A193 B7M	A193/A320 B8M Cl2



Weight (Kg)

NPS	Class 150	Class 300	Class 600	G.Box
3"	22	27	-	3
4"	32	44	-	3
6"	81	105	-	9
8"	143	179	-	20
10"	245	287	-	20
12"	367	480	-	20/25

Dimensions

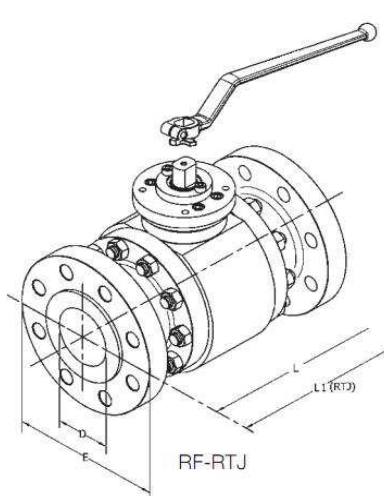
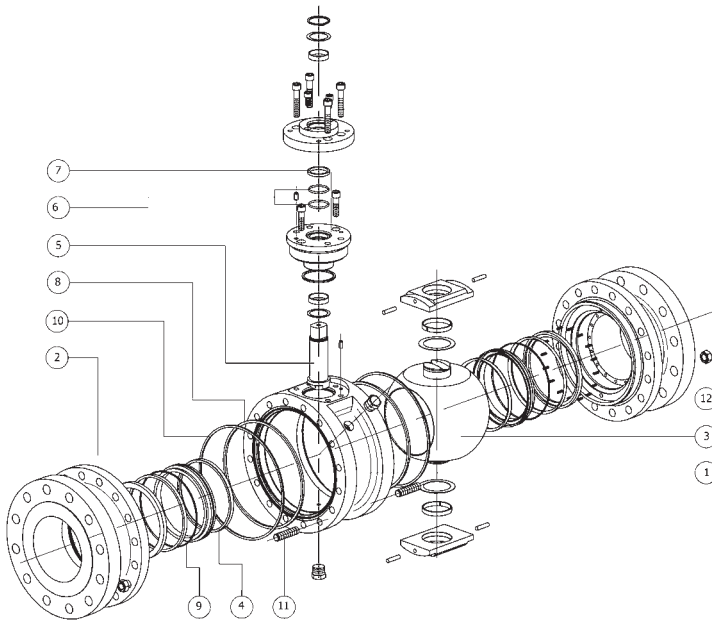
NPS	Class 150 & 300											Class 600							Gearbox			
	D	L		E		F	G	H	S		ISO	L	E	F	G	H	S	ISO	J	M	N	K
		150	300	150	300			150	300	5211												
3"	80	203	283	191	210	114	205	355	101	142	F10	-	-	-	-	-	-	-	222	261	50	300
4"	100	229	305	229	254	128	220	355	114	152	F10	-	-	-	-	-	-	-	236	261	50	300
6"	150	394	403	279	318	175	284	680	165	211	F12	-	-	-	-	-	-	-	295	287	71	400
8"	200	457	502	343	381	245	362	750	228	251	F14	-	-	-	-	-	-	-	377	305	86	500
10"	250	533	568	406	445	285	-	-	270	283	F14	-	-	-	-	-	-	-	417	305	86	500
12"	300	610	648	483	521	336	-	-	305	324	F14	-	-	-	-	-	-	-	474	346	104	500



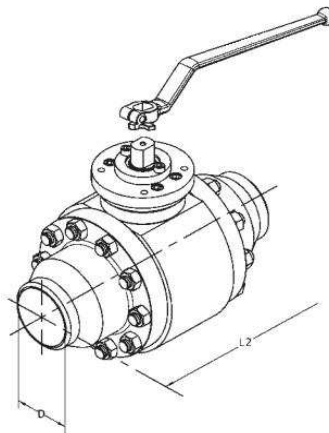
FULL TRUNNION

Standard materials

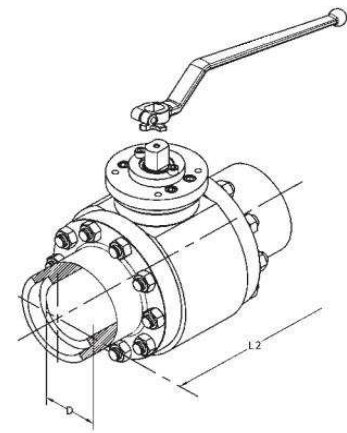
Item	Description	Figure*	
1-2	Body	A216 WCB A105N/LF2	A351 CF8M A182 F316
3	Ball	A351 CF8M / LF2+ENP	
4	Seats	TEFLON (T) TEFLON +FG (R) TEFLON+CG(S) DEVLON (N)	
5	Stem	AISI 316 A182 F51	
6-7	Packing ring	Graphite Viton®	
9	Seat seal	Viton® Graphite	
8-10	Body seal	Viton® - Graphite	
11	Studs	A320 L7M	A193/A320 B8M C12
12	Nuts	A194 7M	A194 8M



RF-RTJ



BUTT WELD



SOCKET WELD

Weight (kg)

Full Bore

RF - RTJ

NPS	Class150	Class 300	Class 600	Class 900	Class1500	Class 2500
2"	21	22	30	60	75	118
3"	55	57	60	80	110	220
4"	105	110	110	180	185	370
6"	225	185	235	390	430	755
8"	305	240	460	650	780	1970
10"	455	575	680	980	1200	3005
12"	630	660	1020	1400	1620	4150
14"	770	800	1220	1640	1980	-
16"	850	1215	1510	1980	2370	-
18"	1450	1710	2410	2805	-	-
20"	1870	2450	3115	3738	-	-

Butt Weld - Socket Weld

NPS	Class150	Class 300	Class 600	Class 900	Class1500	Class 2500
2"	17	18	25	49	62	97
3"	45	47	50	66	90	180
4"	87	91	91	150	152	305
6"	186	153	195	320	359	625
8"	253	200	380	530	640	1635
10"	377	470	560	810	995	2490
12"	520	540	845	1160	1344	3440
14"	640	664	1010	1360	1640	-
16"	700	1008	1250	1640	1970	-
18"	1200	1400	2000	2328	-	-
20"	1550	2033	2580	3100	-	-

Reduced Bore

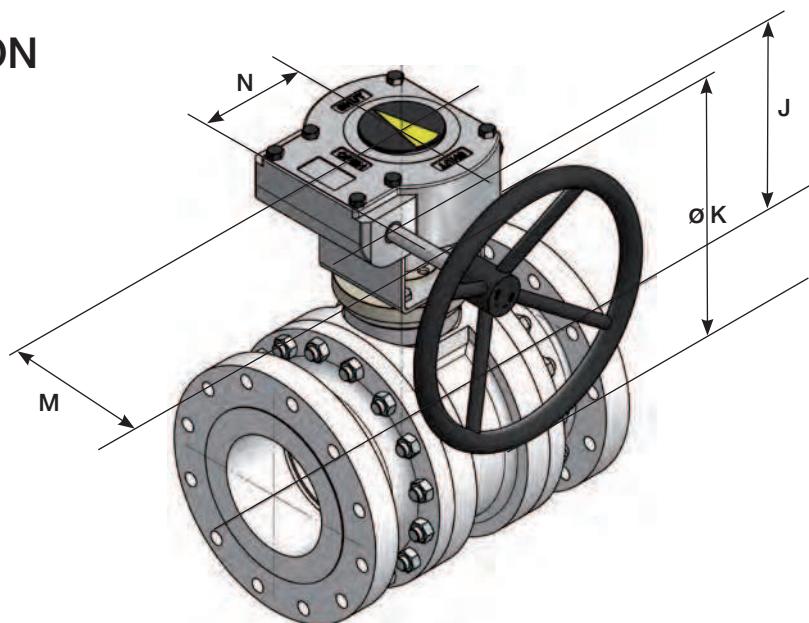
RF - RTJ

NPS	Class150	Class 300	Class 600	Class 900	Class1500	Class 2500
3"x2"	30	34	39	65	76	150
4"x3"	75	78	85	109	141	281
6"x4"	115	130	160	222	285	567
8"x6"	268	265	328	370	515	989
10"x8"	395	314	550	560	790	2250
12"x10"	615	625	720	798	1070	3110
14"x12"	712	730	920	934	1300	-
16"x14"	880	890	1120	1128	1560	-
18"x16"	905	1200	2050	1300	-	-
20"x18	1420	1850	2600	2460	-	-

Butt Weld - Socket Weld

NPS	Class150	Class 300	Class 600	Class 900	Class1500	Class 2500
3"x2"	25	28	32	54	63	124
4"x3"	62	64	70	90	117	233
6"x4"	95	106	132	184	236	470
8"x6"	222	219	272	307	427	820
10"x8"	327	260	456	464	655	1867
12"x10"	510	518	597	662	888	2581
14"x12"	590	605	760	775	1079	-
16"x14"	730	730	929	936	1295	-
18"x16"	750	995	1700	1079	-	-
20"x18	1178	1530	2150	2040	-	-

FULL TRUNNION



Dimensions

Class 150/300/600

NPS		D		L (RF)			L1(RTJ)			L2 (BW) (SW)			E		
FB	RB	150-600 FB	150-600 RB	150	300	600	150	300	600	150	300	600	150	300	600
2"	-	50	-	178	216	292	191	232	295	216	216	292	152	165	165
3"	3" x 2"	75	50	203	283	356	215	300	359	283	283	356	191	210	210
4"	4" x 3"	100	75	229	305	432	241	321	435	305	305	432	229	254	273
6"	6" x 4"	150	100	394	403	559	406	419	562	457	457	559	279	318	356
8"	8" x 6"	201	150	457	502	660	470	518	663	521	521	660	343	381	419
10"	10" x 8"	252	201	533	568	787	545	584	790	559	559	787	406	445	508
12"	12" x 10"	303	252	610	648	838	622	664	841	635	635	838	483	521	559
14"	14" x 12"	385	303	686	762	889	698	778	891	762	762	889	535	585	605
16"	16" x 14"	334	334	762	838	991	774	854	877	838	838	991	595	650	685
18"	18" x 16"	438	385	864	914	1092	877	930	1095	914	914	1092	635	710	745
20"	20" x 18"	487	436	914	991	1194	927	1007	1200	991	991	1194	700	775	815
24"	24" x 20"	589	487	1067	1143	1397	1080	1165	1407	1143	1143	1397	815	915	940

NPS		Class 150						Class 300						Class 600 lbs					
FB	RB	J	K	M	N	ISO 5211		J	K	M	N	ISO 5211		J	K	M	N	ISO 5211	
2"	3" x 2"	226	300	276	50	F07		226	300	276	50	F07		226	300	276	50	F07	
3"	4" x 3"	258	300	276	50	F10		258	300	276	50	F10		258	300	276	50	F10	
4"	6" x 4"	277	300	276	50	F10		277	300	276	50	F10		295	400	317	71	F12	
6"	8" x 6"	330	400	317	71	F12		330	400	317	71	F12		361	500	305	86	F14	
8"	10" x 8"	395	500	305	86	F14		395	500	305	86	F14		463	500	305	104	F16	
10"	12" x 10"	433	500	305	86	F14		439	500	305	104	F14		505	600	346	130	F16	
12"	14" x 12"	506	500	346	104	F14		506	500	305	104	F14		635	600	346	130	F25	
14"	16" x 14"	574	500	346	104	F16		574	600	346	130	F16		700	600	412	182	F25	
16"	18" x 16"	608	600	346	130	F16		608	600	447	130	F16		749	700	500	203	F25	
18"	20" x 18"	695	600	387	130	F25		700	600	412	182	F25		769	700	578	278	F30	
20"	24" x 20"	722	600	412	182	F25		700	600	412	182	F25		809	700	578	278	F30	
24"	-	890	600	412	182	F30		900	600	412	182	F30		860	700	578	278	F30	

Class 900/1500/2500

NPS		D						L (RF)			L1(RTJ)			L2 (BW) (SW)			E		
FB	RB	900 FB	900 RB	1500 FB	1500 RB	2500 FB	2500 RB	900	1500	2500	900	1500	2500	900	1500	2500	900	1500	2500
2"	-	50	-	50	-	42	-	368	368	451	371	371	454	368	368	451	215	215	235
3"	3" x 2"	75	50	75	50	62	42	381	470	578	384	473	584	381	470	578	240	265	305
4"	4" x 3"	100	75	100	75	87	62	457	546	673	460	549	683	457	546	673	290	310	355
6"	6" x 4"	150	100	144	100	131	87	610	705	914	613	711	927	610	705	914	380	395	485
8"	8" x 6"	201	150	192	144	179	131	737	832	1022	740	841	1038	737	832	1022	470	485	550
10"	10" x 8"	252	201	239	192	223	179	838	991	1270	841	1000	1292	838	991	1270	545	585	675
12"	12" x 10"	303	252	287	239	265	223	965	1130	1422	968	1146	1445	965	1130	1422	610	675	760
14"	14" x 12"	334	303	315	287	-	-	1029	1250	-	1039	1276	-	1029	1250	-	640	750	-
16"	16" x 14"	373	334	360	315	-	-	1130	1384	-	1140	1407	-	1130	1384	-	705	825	-
18"	18" x 16"	423	373	-	-	-	-	1219	-	-	1221	-	-	1219	-	-	785	-	-
20"	20" x 18"	471	423	-	-	-	-	1321	-	-	1334	-	-	1321	-	-	855	-	-
24"	24" x 20"	570	471	-	-	-	-	1549	-	-	1568	-	-	1549	-	-	1040	-	-

NPS		Class 900						Class 1500						Class 2500 lbs					
FB	RB	J	K	M	N	ISO 5211		J	K	M	N	ISO 5211		J	K	M	N	ISO 5211	
2"	3" x 2"	243	300	263	50	F10		243	300	263	50	F10		267	300	263	50	F12	
3"	4" x 3"	268	300	263	70	F12		278	400	296	70	F12		313	400	305	70	F14	
4"	6" x 4"	345	400	296	70	F12		372	400	305	70	F14		332	500	305	86	F16	
6"	8" x 6"	387	500	305	86	F16		475	500	305	86	F16		410	500	305	86	F25	
8"	10" x 8"	463	500	305	86	F16		525	600	364	104	F25		633	600	364	104	F25	
10"	12" x 10"	532	500	364	104	F16		666	600	364	104	F25		723	600	420	104	F30	
12"	14" x 12"	620	600	364	104	F25		729	600	364	104	F30		780	800	420	104	F35	
14"	16" x 14"	660	600	364	130	F30		780	800	420	182	F30		-	-	-	-	-	
16"	18" x 16"	730	600	364	130	F30		857	800	420	182	F35		-	-	-	-	-	
18"	20" x 18"	768	800	420	182	F35		-	-	-	-	-		-	-	-	-	-	
20"	24" x 20"	806	800	600	430	F35		-	-	-	-	-		-	-	-	-	-	
24"	-	856	800	600	430	F35		-	-	-	-	-		-	-	-	-	-	

SITE FACILITIES



LATHE MACHINE



CNC LATHE MACHINE



CNC HORIZONTAL MILLING MACHINE



LAPPING MACHINE



ROTARY WELDING MACHINE



OVERLAY WELDING MACHINE



HYDROTEST MACHINE



PAINTING BOOTH

CERTIFICATION



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