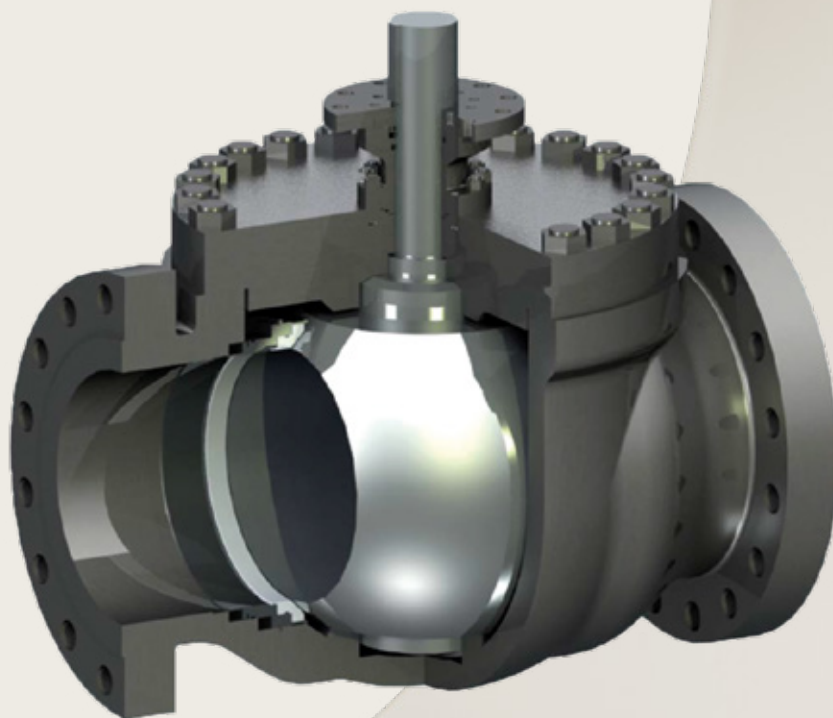
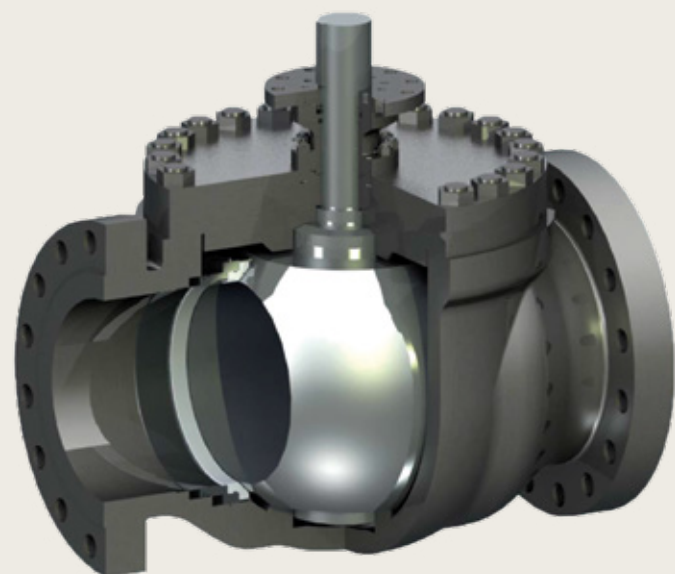


Process Automation

IMI Truflo Italy



Breakthrough
engineering for
a better world



Top Entry Ball Valves

Trunnion Mounted Spring Energized Seats

Trunnion Mounted Top Entry high performance ball valves, thanks to their robust design, are engineered to meet the mostly used International standards like API 6A, API 6D, ASME B16.34, ISO 17292 and other on request.

The range contains both soft, metal or composite seats that can be configured with single or double piston effect to provide an effective double block and bleed (DB&B) in both closed and, on request, in open position. Trunnion mounted ball, spring loaded seats, forged or cast body bolted bonnet construction fully maintainable in line.

Find out more
www.imiplc.com

Key features

- Cavitation design
- Soft or Metal seated
- Bi-directional tight shut-off
- Double block & bleed
- Fire safe and fire tested
- Low operating torque
- Wide range of materials and sizes
- Trunnion mounted with energized seats
- Anti-blowout stem design
- Horizontal and Vertical Disassembly
- Suitable for above ground or below ground installation
- Fully maintainable in line

Benefits

The large use of forgings and the independent spring or bellows loaded floating seats which are always in contact with the ball, make these valves the preferred solution for various demanding applications like Cryogenic, High Temperature, Low Emission, ESD / HIPPS and Sub Sea. Suitable to be used in the most severe services such as scraper launcher and receiver and hot tapping, our valves can be equipped with bellow seals, steam flushing ports and protected bearings, to cope with medium/ high amounts of solids like tar sands or catalysts. These products receive approvals from the major End Users and Contractors and are designed to meet SIL3 requirements according to IEC 61508.

Additionally the double or triple stem seal design (with lip seals or o-rings or optionally with leak off chambers for predictive maintenance) allows to meet and exceed the most stringent Low Fugitive Emissions Norms (ISO 15848) making our valves suitable to handle toxic or lethal fluid services. The design is based on high quality forged or cast materials and meet all requirements of Very Severe Service applications. The independent spring or bellows loaded floating seats which are always in contact with the ball provide an effective tight seal even at low differential pressures. Seating elements can be soft, metal or composite.

Typical applications

- Well-Head; Flow-Lines
- Pipeline Valves
- Riser-ESDV
- GOV; SDV; BDV; XXV; XV
- Scraper Trap
- isolation
- Process Valves
- SSIV
- ROV
- HIPPS
- Sub-sea
- Cryogenic
- Low-temp
- Hot tapping
- Inching
- Scraper - trap
- Switching valves
- Metering valves
- Quick closing
- (below 1 sec)
- Oil Sand Slurry
- Hi-Temperature
- Buried / Underground Valves

Size

- Sizes
NPS 1/2" through 60"
(DN 15 through DN 1500)
- Pressure Rating:
- ANSI CLASS 150 through 2500 and 4500
- API 2000 through 15000)
- End Connections:
ANSI Flanges
- ANSI B16.5 for sizes up to 24"
- ANSI B16.47 for sizes 26" and larger
- Compact Flanges
- NORSOK L-005
- Hub Connectors
- all major hub end design available
- Welding Ends
- Butt Welding to ANSI B16.25 or equivalent
- Pup pieces available on request
- Socket Welding to ASME B16.11
- Temperature Range:
from -196 °C to 650°C (from -321 °F to 1200 °F)



4 1/16" API 10000



32" ANSI 900

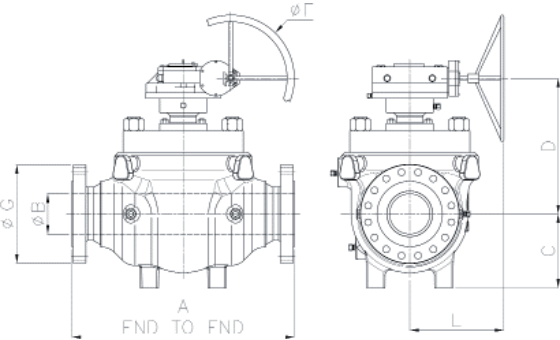


32" ANSI 900



36" ANSI 900

Dimensions API-6A



CLASS 2000									
DN	SIZE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
46	1-13/16"	•	46						
52x46	2-1/16"x 1-13/16"	•	46					165	
52	2-1/16"	• 371	52,4	140	250	-	450	165	50
65	2-9/16"	• 473	65,1	150	270	325	350	210	135
79	3-1/8"	• 473	79,4	150	270	325	350	210	140
79x81	3-1/8"x 3-3/16"	•	81					210	
103	4-1/16"	• 549	103,2	160	300	360	500	275	270
103x105	4-1/16"x4-1/8"	•	104,8					275	
103x108	4-1/16"x4-1/4"	•	108					275	
130	5-1/8"	•	130,2					330	
179x152	7-1/16"x6"	• 711	152,4	210	390	375	600	355	380
179x162	7-1/16"x 6-3/8"	•	161,9					355	
179x168	7-1/16"x 6-5/8"	•	168,3					355	
179	7-1/16"	•	179,4					355	
179x181	7-1/16"x 7-1/8"	•	181					355	
228	9"	•	228					420	
279	11"	•	279					510	
346	13- 5/8"	•	346					560	

CLASS 2000									
DN	SIZE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
46	1-13/16"	•	46						
52x46	2-1/16"x 1-13/16"	•	46					165	
52	2-1/16"	• 371	52,4	140	250	-	450	165	50
65	2-9/16"	• 473	65,1	150	270	325	350	210	135
79	3-1/8"	• 473	79,4	150	270	325	350	210	140
79x81	3-1/8"x 3-3/16"	•	81					210	
103	4-1/16"	• 549	103,2	160	300	360	500	275	270
103x105	4-1/16"x4-1/8"	•	104,8					275	
103x108	4-1/16"x4-1/4"	•	108					275	
130	5-1/8"	•	130,2					330	
179x152	7-1/16"x6"	• 711	152,4	210	390	375	600	355	380
179x162	7-1/16"x 6-3/8"	•	161,9					355	
179x168	7-1/16"x 6-5/8"	•	168,3					355	
179	7-1/16"	•	179,4					355	
179x181	7-1/16"x 7-1/8"	•	181					355	
228	9"	•	228					420	
279	11"	•	279					510	
346	13- 5/8"	•	346					560	

CLASS 5000									
DN	SIZE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
46	1-13/16"	•	46						
52x46	2-1/16"x 1-13/16"	•	46						
52	2-1/16"	371	52,4	140	270	360	500	215	55
65	2-9/16"	473	65,1	150	290	360	500	265	155
79	3-1/8"	473	79,4	150	290	360	500	265	150
79x81	3-1/8"x 3-3/16"	•	81					265	
103	4-1/16"	549	103,2	160	315	375	600	310	290
103x105	4-1/16"x4-1/8"	•	104,8					310	
103x108	4-1/16"x4-1/4"	•	108					310	
130	5-1/8"	•	130,2					375	
179x130	7-1/16"x 5-1/8"	•	130,2					395	
179x152	7-1/16"x6"	711	152,4	220	410	460	700	395	390
179x162	7-1/16"x 6-3/8"	•	161,9					395	
179x168	7-1/16"x 6-5/8"	•	168,3					395	
179	7-1/16"	•	179,4					395	
179x181	7-1/16"x 7-1/8"	•	181					395	
228	9"	•	228					485	
279	11"	•	279					585	
346	13- 5/8"	•	346					675	

CLASS 10000									
DN	SIZE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
46	1-13/16"	464	46	120	320	390	350	185	210
52	2-1/16"	521	52,4	140	320	375	600	200	300
65	2-9/16"	565	65,1	165	387	375	600	230	480
79	3-1/16"	619	77,8	180	435	375	600	270	705
103	4-1/16"	670	103,2	200	490	460	700	315	935
130	5-1/8"	737	130,2	270	540	485	700	360	1455
179x162	7-1/16"x 6-3/8"	• 1100	161,9	300	746	570	700	480	3300
179	7-1/16"	• 1170	179,4	320	790	570	700	480	3600
228	9"	•	-					550	
279	11"	•	-					655	
346	13-5/8"	•	-					770	

CLASS 15000									
DN	SIZE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
46	1-13/16"	457	46	210	393	400	600	210	280
52	2-1/16"	483	52,4	220	403	400	600	220	380
65	2-9/16"	533	65,1	280	480	460	600	255	420
79	3-1/16"	598	77,8	330	590	570	700	290	930
103	4-1/16"	737	103,2	450	780	570	700	360	1400
130	5-1/8"	889	130,2	620	970	570	700	420	1900
179	7-1/16"	•	-					505	
228	9"	•	-					650	
279	11"	•	-					815	
346	13-5/8"	•	-					885	

Dimensions API-6D

CLASS 150											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	200	200	-	13	63	192	-	300	90	17
20x15	3/4"x1/2"	230	230	-	19x13	63	192	-	300	100	17
20	3/4"	230	230	-	19	75	192	-	300	100	20
25x20	1x3/4"	240	240	250	25x19	75	192	-	300	110	20
25	1"	240	240	250	25	82	198	-	300	110	23
40x25	1-1/2"x 1"	260	260	270	38x25	82	198	-	300	125	23
40	1-1/2"	260	260	270	38	90	211	-	300	125	23
50x40	2"x 1 - 1/2"	292	292	295	49x38	90	211	-	300	150	29
50	2"	292	292	295	49	95	218	-	300	150	32
80x50	3" x 2"	356	356	359	74x49	95	218	-	300	190	40
80	3"	356	356	359	74	135	241	-	300	190	59
100x80	4" x 3"	432	432	435	100x74	135	241	-	300	230	80
100	4"	432	432	435	100	135	273	-	450	230	115
150x100	6"x4"	559	559	562	150x100	135	273	-	450	280	155
150	6"	559	559	562	150	180	284	360	300	280	245
200x150	8"x 6"	660	660	664	201x150	180	284	360	300	345	285
200	8"	660	660	664	201	235	312	360	400	345	450
250x200	10"x 8"	787	787	791	252x201	235	312	360	400	405	500
250	10"	787	787	791	252	290	370	385	500	405	490
300x250	12"x10"	838	838	841	303x252	290	370	385	500	485	530
300	12"	838	838	841	303	310	395	385	500	485	630
350x300	14"x12"	889	889	892	334x303	310	395	385	500	535	835
350	14"	889	889	892	334	335	415	385	500	535	870
400x350	16"x14"	991	991	994	385x334	335	415	385	500	595	970
400	16"	991	991	994	385	360	490	385	500	595	1195
500x400	20"x16"	1194	1194	1200	487x385	360	490	385	500	700	1625
450	18"	1092	1092	1095	436	400	550	385	500	635	1610
500	20"	1194	1194	1200	487	460	590	410	500	700	2040
600x500	24"x 20"	1397	1397	1407	589x487	460	590	410	500	815	2480
550	22"	1295	1295	-	538	545	600	445	600	750	2850
600	24"	1397	1397	1407	589	570	710	445	600	815	3335
750x600	30"x24"	1651	1651	-	735x589	570	710	445	600	985	4125
700	28"	1549	1549	-	684	660	800	480	700	925	4790
750	30"	1651	1651	-	735	700	850	480	700	985	5855
900x750	36"x30"	2083	2083	-	874x735	700	850	480	700	1170	7280
800	32"	1778	1778	-	779	755	862	480	700	1060	7350
850	34"	1930	1930	-	830	790	900	480	700	1110	8025
900	36"	2083	2083	-	874	830	990	480	700	1170	9420
1000x900	40"x36"	2220	2220	-	976x874	830	990	480	700	1290	9950
950	38"	2180	2180	-	925	860	1010	480	700	1240	11520
1000	40"	2220	2220	-	976	890	1035	480	700	1290	13055
1200x1000	48"x40"	2560	2560	-	1166x976	890	1035	480	700	1510	16400
1050	42"	2300	2300	-	1020	920	1057	480	700	1345	19750
1200	48"	2560	2560	-	1166	1100	1260	750	700	1510	23100
1400x1200	56"x48"	3200	3200	-	1360x1166	1100	1260	750	700	1745	27320
1350	54"	3100	3100	-	1312	1220	1480	750	700	1685	31580
1400	56"	3200	3200	-	1360	1270	1550	750	700	1745	35690
1500	60"	3450	3450	-	1458	1330	1720	750	700	1855	40200

CLASS 300											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	200	200	210	13	63	192	-	300	95	18
20x15	3/4"x1/2"	230	230	240	19x13	63	192	-	300	115	18
20	3/4"	230	230	240	19	75	192	-	300	115	20
25x20	1x3/4"	240	240	250	25x19	75	192	-	300	125	20
25	1"	240	240	250	25	82	198	-	300	125	23
40x25	1-1/2"x 1"	260	260	270	38x25	82	198	-	300	155	23
40	1-1/2"	260	260	270	38	90	211	-	300	155	24
50x40	2"x 1 - 1/2"	292	292	295	49x38	90	211	-	300	165	32
50	2"	292	292	295	49	95	218	-	300	165	35
80x50	3" x 2"	356	356	359	74x49	95	218	-	300	210	43
80	3"	356	356	359	74	135	245	-	450	210	68
100x80	4" x 3"	432	432	435	100x74	135	245	-	450	255	89
100	4"	432	432	435	100	135	273	-	600	255	128
150x100	6"x4"	559	559	562	150x100	135	273	-	600	320	172
150	6"	559	559	562	150	180	292	320	400	320	290
200x150	8"x 6"	660	660	664	201x150	180	292	320	400	380	316
200	8"	660	660	664	201	250	346	320	400	380	535
250x200	10"x 8"	787	787	791	252x201	250	346	320	400	445	575
250	10"	787	787	791	252	300	405	370	500	445	598
300x250	12"x10"	838	838	841	303x252	300	405	370	500	520	620
300	12"	838	838	841	303	320	410	385	500	520	770
350x300	14"x12"	889	889	892	334x303	320	410	385	500	585	980
350	14"	889	889	892	334	350	430	385	500	585	1060
400x350	16"x14"	991	991	994	385x334	350	430	385	500	650	1150
400	16"	991	991	994	385	380	520	410	500	650	1490
500x400	20"x16"	1194	1194	1200	487x385	380	520	410	500	775	1895
450	18"	1092	1092	1095	436	420	600	410	600	710	1920
500	20"	1194	1194	1200	487	480	670	445	600	775	2360
600x500	24"x 20"	1397	1397	1407	589x487	480	670	445	600	915	2900
550	22"	1295	1295	1305	538	560	715	570	600	840	3380
600	24"	1397	1397	1407	589	580	770	570	600	915	3890
750x600	30"x24"	1651	1651	1664	735x589	580	770	570	700	1090	4820
700	28"	1549	1549	1562	684	670	960	570	700	1035	5800
750	30"	1651	1651	1664	735	730	1000	570	700	1090	6840
900x750	36"x30"	2083	2083	2099	874x735	730	1000	570	700	1270	8450
800	32"	1778	1778	1794	779	760	1050	730	700	1150	8530
850	34"	1930	1930	1946	830	820	1100	730	700	1205	9345
900	36"	2083	2083	2099	874	850	1150	730	700	1270	10950
1000x900	40"x36"	2220	2220	-	976x874	850	1150	730	700	1240	13800
950	38"	2180	2180	-	925	890	1195	730	700	1170	12380
1000	40"	2220	2220	-	976	940	1230	730	700	1240	15210
1200x1000	48"x40"	2560	2560	-	1166x976	940	1230	730	700	1465	21400
1050	42"	2300	2300	-	1020	980	1260	750	700	1290	17885
1200	48"	2560	2560	-	1166	1140	1370	750	700	1465	26750
1400x1200	56"x48"	3200	3200	-	1360x1166	1140	1370	750	700	1710	32540
1350	54"	3100	3100	-	1312	1260	1580	750	700	1660	38500
1400	56"	3200	3200	-	1360	1310	1680	750	700	1710	44090
1500	60"	3450	3450	-	1458	1400	1840	950	700	1810	49850

Notes
(*) Short pattern available on request
(**) End flanges to asme b16.5 Up to 24" / asme b16.47 Series a for 26" and larger (***) any type of alternative end flanges available on request
Dimensions are millimeters, weight are kilos

CLASS 600											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	210	210	210	13	63	195	-	300	95	20
20x15	3/4"x1/2"	240	240	240	19x13	63	195	-	300	115	20
20	3/4"	240	240	240	19	75	195	-	300	115	22
25x20	1x3/4"	250	250	250	25x19	75	195	-	300	125	22
25	1"	250	250	250	25	82	210	-	300	125	25
40x25	1-1/2"x 1"	270	270	270	38x25	82	210	-	300	155	25
40	1-1/2"	270	270	270	38	90	220	-	300	155	30
50x40	2"x 1 - 1/2"	292	292	295	49x38	90	220	-	300	165	32
50	2"	292	292	295	49	120	240	-	450	165	39
80x50	3" x 2"	356	356	359	74x49	120	240	-	450	210	51
80	3"	356	356	359	74	140	270	325	200	210	75
100x80	4" x 3"	432	432	435	100x74	140	270	325	200	275	101
100	4"	432	432	435	100	150	295	360	300	275	140
150x100	6"x4"	559	559	562	150x100	150	295	360	300	355	185
150	6"	559	559	562	150	230	315	375	400	355	310
200x150	8"x 6"	660	660	664	201x150	230	315	375	400	420	350
200	8"	660	660	664	201	260	370	375	400	420	570
250x200	10"x 8"	787	787	791	252x201	260	370	375	400	510	650
250	10"	787	787	791	252	315	420	385	500	510	730
300x250	12"x10"	838	838	841	303x252	315	420	385	500	560	785
300	12"	838	838	841	303	320	455	460	500	560	965
350x300	14"x12"	889	889	892	334x303	320	455	460	500	605	1240
350	14"	889	889	892	334	360	480	460	500	605	1280
400x350	16"x14"	991	991	994	385x334	360	480	460	500	685	1460
400	16"	991	991	994	385	395	561	460	600	685	1750
500x400	20"x16"	1194	1194	1200	487x385	395	561	460	600	815	2400
450	18"	1092	1092	1095	436	445	640	570	600	745	2380
500	20"	1194	1194	1200	487	495	715	570	600	815	3150
600x500	24"x 20"	1397	1397	1407	589x487	495	715	570	700	940	3690
550	22"	1295	1295	1305	538	560	660	570	700	870	4300
600	24"	1397	1397	1407	589	595	820	570	700	940	5350
750x600	30"x24"	1651	1651	1664	735x589	595	820	570	700	1130	6900
700	28"	1549	1549	1562	684	700	1025	730	700	1075	7250
750	30"	1651	1651	1664	735	750	1050	730	700	1130	8800
900x750	36"x30"	2083	2083	2099	874x735	750	1050	730	700	1315	10950
800	32"	1778	1778	1794	779	790	1120	730	700	1195	11000
850	34"	1930	1930	1946	830	840	1160	730	700	1245	12100
900	36"	2083	2083	2099	874	880	1198	730	700	1315	14000
1000x900	40"x36"	2400	2400	-	976x874	880	1198	750	700	1320	17250
950	38"	2240	2240	-	925	920	1230	750	700	1270	16750
1000	40"	2400	2400	-	976	970	1270	750	700	1320	19450
1200x1000	48"x40"	2800	2800	-	1166x976	970	1270	750	700	1595	25900
1050	42"	2450	2450	-	1020	1020	1300	750	700	1405	22700
1200	48"	2800	2800	-	1166	1180	1480	950	700	1595	32450
1400x1200	56"x48"	3300	3300	-	1360x1166	1180	1480	950	700	1855	42890
1350	54"	3180	3180	-	1312	1310	1660	1100	700	1780	43900
1400	56"	3300	3300	-	1360	1380	1750	1100	700	1855	48250
1500	60"	3580	3580	-	1458	1490	1930	1100	700	1995	59150

CLASS 900											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	237	237	237	13	65	200	-	300	120	23
20x15	3/4"x1/2"	260	260	260	19x13	65	200	-	300	130	23
20	3/4"	260	260	260	19	100	200	-	300	130	25
25x20	1x3/4"	340	340	340	25x19	100	200	-	300	150	26
25	1"	340	340	340	25	110	230	-	300	150	27
40x25	1-1/2"x 1"	350	350	350	38x25	110	230	-	300	180	28
40	1-1/2"	350	350	350	38	123	250	-	300	180	30
50x40	2"x 1 - 1/2"	368	368	371	49x38	123	250	-	300	215	52
50	2"	368	368	371	49	140	280	360	200	215	54
80x50	3" x 2"	381	381	384	74x49	140	280	360	200	240	75
80	3"	381	381	384	74	150	300	360	300	240	112
100x80	4" x 3"	457	457	460	100x74	150	300	360	300	290	150
100	4"	457	457	460	100	160	320	375	400	290	210
150x100	6"x4"	610	610	613	150x100	160	320	375	400	380	280
150	6"	610	610	613	150	230	375	385	400	380	460
200x150	8"x 6"	737	737	740	201x150	230	375	385	400	470	582
200	8"	737	737	740	201	250	403	385	400	470	853
250x200	10"x 8"	838	838	841	252x201	250	403	385	400	545	950
250	10"	838	838	841	252	330	445	385	500	545	1090
300x250	12"x10"	965	965	968	303x252	330	445	385	500	610	1185
300	12"	965	965	968	303	350	500	460	500	610	1450
350x300	14"x12"	1029	1029	1038	322x303	350	500	460	500	640	1900
350	14"	1029	1029	1038	322	370	556	460	600	640	1830
400x350	16"x14"	1130	1130	1140	373x322	370	556	460	600	705	2195
400	16"	1130	1130	1140	385	420	632	460	600	705	2720
500x400	20"x16"	1321	1321	1334	373	420	632	460	600	855	3610
450	18"	1219	1219	1232	423	500	700	570	700	785	3590
500	20"	1321	1321	1334	471	550	800	570	700	855	4550
600x500	24"x 20"	1549	1549	1568	570x471	550	800	570	700	1040	5590
600	24"	1549	1549	1568	570	650	900	750	700	1040	7540
750x600	30"x24"	1880	1880	1902	712x570	650	900	750	700	1230	9310
700	28"	1753	1753	-	665	700	1150	750	700	1170	10850
750	30"	1880	1880	1902	712	740	1250	750	700	1230	13180
900x750	36"x30"	2286	2286	2315	855x712	740	1250	750	700	1460	16050
800	32"	2032	2032	-	760	780	1310	750	700	1315	16180
850	34"	2159	2159	-	808	875	1370	750	700	1395	17970
900	36"	2286	2286	2315	855	890	1390	750	700	1460	21150
1000x900	40"x36"	2550	2550	-	956x855	890	1390	750	700	1510	24050
950	38"	2420	2420	-	904	930	1420	750	700	1460	23400
1000	40"	2550	2550	-	956	1030	1450	950	700	1510	27300
1200x1000	48"x40"	3070	3070	-	1149x956	1030	1450	950	700	1785	32450
1050	42"	2690	2690	-	1006	1070	1480	950	700	1560	31000
1200	48"	3070	3070	-	1149	1200	1550	1100	700	1785	45250
1400x1200	56"x48"										
1350	54"										
1400	56"										
1500	60"										
1500	60"										

CLASS 1500											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	• 237	• 237	• 237	13	65	200	-	300	120	25
20x15	3/4"x1/2"	• 260	• 260	• 260	19x13	65	200	-	300	130	28
20	3/4"	• 260	• 260	• 260	19	100	200	-	450	130	30
25x20	1x3/4"	• 340	• 340	• 340	25x19	100	200	-	450	150	33
25	1"	• 340	• 340	• 340	25	110	230	-	600	150	35
40x25	1-1/2"x 1"	• 350	• 350	• 350	38x25	110	230	-	600	180	40
40	1-1/2"	• 350	• 350	• 350	38	123	250	-	600	180	45
50x40	2"x 1 - 1/2"	368	368	371	49x38	123	250	-	600	215	51
50	2"	368	368	371	49	140	270	360	200	215	55
80x50	3" x 2"	470	470	473	74x49	140	270	360	200	265	102
80	3"	470	470	473	74	150	290	360	200	265	150
100x80	4" x 3"	546	546	549	100x74	150	290	360	200	310	210
100	4"	546	546	549	100	160	315	375	400	310	290
150x100	6"x4"	705	705	711	144x100	160	315	375	400	395	390
150	6"	705	705	711	144	220	410	460	400	395	650
200x150	8"x 6"	832	832	841	192x144	220	410	460	400	485	740
200	8"	832	832	841	192	280	505	460	500	485	1210
250x200	10"x 8"	991	991	1000	239x192	280	505	460	500	585	1350
250	10"	991	991	1000	239	340	600	485	500	585	1530
300x250	12"x10"	1130	1130	1146	287x239	340	600	485	500	675	1635
300	12"	1130	1130	1146	287	405	700	500	600	675	2085
350x300	14"x12"	1257	1257	1276	315x287	405	700	500	600	750	2800
350	14"	1257	1257	1276	315	467	800	570	700	750	2760
400x350	16"x14"	1384	1384	1407	360x315	467	800	570	700	825	3390
400	16"	1384	1384	1407	360	519	840	750	700	825	4200
500x400	20"x16"	1664	1664	1686	454x360	519	840	750	700	985	5500
450	18"	1537	1537	1559	406	580	950	750	700	915	5400
500	20"	1664	1664	1686	454	640	1060	750	700	985	6950
600x500	24"x 20"	1945 •	1945 •	1972	546x454	640	1060	750	700	1170	11980
600	24"	1945 •	1945 •	1972	546	760	1175	750	700	1170	13500
750x600	30"x24"	2350 •	2350 •	2380 •	686x546	760	1175	750	700	TBA	19000
700	28"	2180 •	2180 •	2210 •	641	825	1227	950	700	TBA	22500
750	30"	2350 •	2350 •	2380 •	686	870	1425	950	700	TBA	26900
900x750	36"x30"	2780 •	2780 •	2810 •	819x686	870	1425	950	700	TBA	37500
800	32"	2490 •	2490 •	2520 •	730	955	1485	950	700	TBA	32500
850	34"	2650 •	2650 •	2680 •	775	1000	1550	950	700	TBA	38500
900	36"	2780 •	2780 •	2810 •	819	1050	1620	950	700	TBA	47300
900	36"	2780 •	2780 •	2810 •	819	1100	1450	950	700	TBA	49000

CLASS 2500											
DN	SIZE	A-RF	A-BWE	A-RTJ	Ø B	C	D	E	F	Ø G (**)(***)	WGT
15	1/2"	300	300	300	13	80	220	-	300	135	35
20x15	3/4"x1/2"	330	330	330	19x13	80	220	-	300	140	38
20	3/4"	330	330	330	19	110	240	-	450	140	43
25x20	1x3/4"	360	360	360	25x19	110	240	-	450	160	48
25	1"	360	360	360	25	120	250	-	600	160	55
40x25	1-1/2"x 1"	410	410	410	38x25	120	250	-	600	205	62
40	1-1/2"	410	410	410	38	130	260	325	200	205	70
50x40	2"x 1 - 1/2"	451	451	454	42x38	130	260	325	200	235	85
50	2"	451	451	454	42	140	280	360	200	235	125
80x50	3" x 2"	578	578	584	62x42	140	280	360	200	305	190
80	3"	578	578	584	62	150	315	375	400	305	270
100x80	4" x 3"	673	673	683	87x62	150	315	375	400	355	350
100	4"	673	673	683	87	170	370	375	400	355	495
150x100	6"x4"	914	914	927	131x87	170	370	375	400	458	695
150	6"	914	914	927	131	250	450	460	500	485	1100
200x150	8"x 6"	1022	1022	1038	179x131	250	450	460	500	550	1280
200	8"	1022	1022	1038	179	290	530	485	600	550	1620
250x200	10"x 8"	1270	1270	1292	223x179	290	530	485	600	675	2300
250	10"	1270	1270	1292	223	380	640	500	600	675	2900
300x250	12"x10"	1422	1422	1445	265x223	380	640	500	600	760	3500
300	12"	1422	1422	1445	265	450	760	570	700	760	4500
350x300	14"x12"	1590	1590	1590	292x265	450	760	570	700	TBA	4850
350	14"	1590	1590	1590	292	520	880	570	700	TBA	5200
400x350	16"x14"	1800	1800	1800	333x292	520	880	570	700	TBA	5950
400	16"	1800	1800	1800	333	595	1000	750	700	TBA	7300
500x400	20"x16"	2200	2200	2200	419x333	595	1000	750	700	TBA	10200
450	18"	2020	2020	2020	374	670	1150	750	700	TBA	10000
500	20"	2200	2200	2200	419	750	1300	950	700	TBA	13850

Notes
(*) Short pattern available on request
(**) End flanges to asme b16.5 Up to 24" / asme b16.47 Series a for 26" and larger (***) any type of alternative end flanges available on request
Dimensions are millimeters, weight are kilos

Process Automation

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