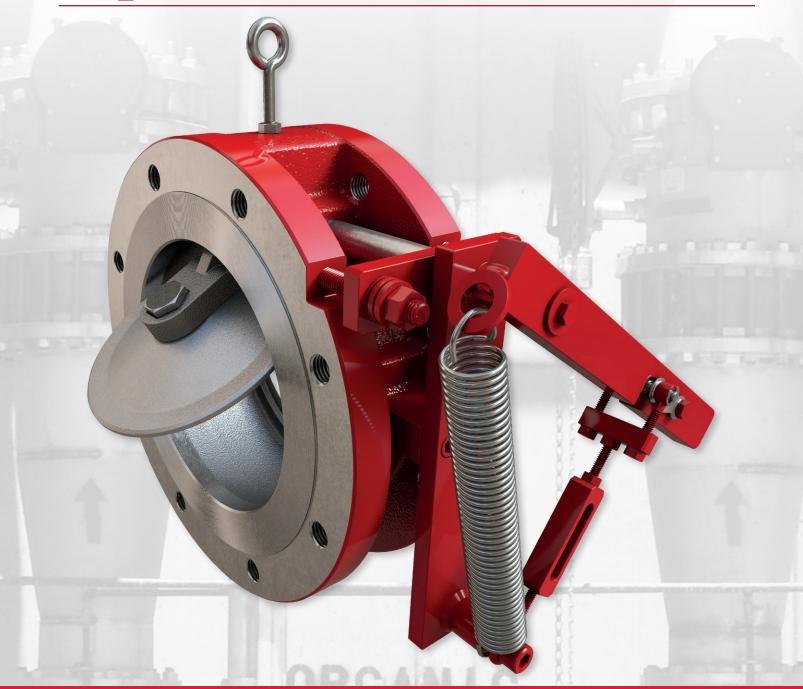
Bray/Rite. CHECK VALVES





BRAY.COM/BRAY-RITE

Bray/Rite.

Rite Corporation, headquartered in Quebec, Canada and founded in 1963, designs and manufactures exceptional Bray/ Rite check valves, cam and groove quick couplings, and fluid handling loading and unloading equipment. For over 40 years, Rite has earned a reputation for reliability. This reputation is based on our highest quality manufacturing standards, premium components and thorough control procedures. With a worldwide sales and distribution network, we offer our customers full support wherever the project location.

Our engineers specialize in innovative, individual solutions to industry needs and will assist you with your project requirements. Our knowledgeable sales and support staff are committed to outstanding service and, above all, customer satisfaction. We look forward to recommending a practical and economical solution to your fluid control applications.

Bray/Rite Valves continue to be the premier wafer combination swing check valve. Designed in 1970, their performance remains unsurpassed. The line offers a wide range of valves and accessories, all fully stocked and readily available. Their successful, long term use in applications worldwide has made the Bray/Rite the industry standard for economy, durability and reliability.

State of the Art Check Valves, Bray/Rite is Rite Sized.

Rite's Bray/Rite wafer combination swing check valves are flow–activated and *Rite Sized*. Bray/Rite inlet ports and disc have been shape optimized to achieve a fully open position at low flow rates (3 ft/s on average). Therefore, the Bray/Rite operates exceptionally well in the flow rates typically found in pipelines containing control valves and lines with varying media flows.

Compare the Bray/Rite to typical full-sized swing check valves. Due in part to their oversized, heavier discs, these valves only fully open at an average flow rate of 11 ft/s. When activated at a lower flow rate, these valves loose true controllability and do not fully open. A partially open disc creates an obstruction that produces a higher pressure drop and fluttering of the valve disc – disturbing the flow and increasing the chance of water hammer.

Bray/Rite is *Rite Sized* to eliminate these problems. It has been engineered to accelerate line media through the valve and achieve a virtually unobstructed full opening in low pressure. *Rite Sized*, combined with the limited movement of internal parts during operation, reduces wear – enhancing the long service life of a Bray/Rite valve. SIZE RANGE 1" (25mm) – 60" (1500mm) ASME CLASS: 125 - 2500 API, DIN, BS, JIS Classes Available



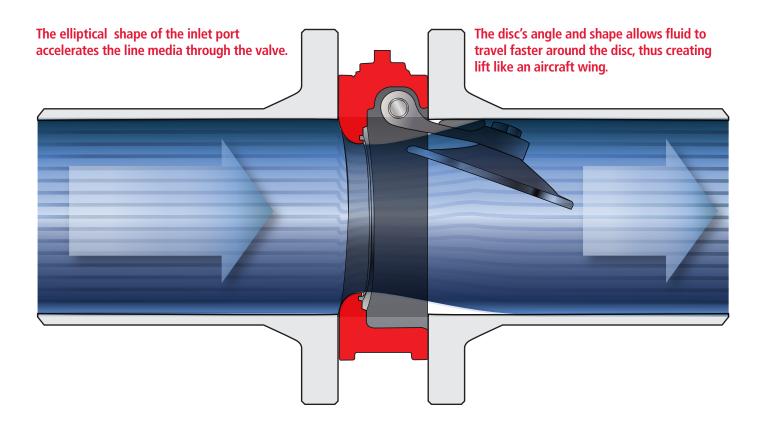
ZERO LEAKAGE Bray/Rite valves, either resilient or metal seated, offer zero leakage in all pressure classifications. Each valve is hydrostatically tested at the factory and shipped with a certificate of compliance to MSS SP61. Rite has achieved zero leakage metal-to-metal sealing by a proven, engineered design backed by high quality manufacturing craftsmanship. As the disc closes toward the seat, the increased velocity of the line media and the unique shape of our seat remove all particles from the sealing surfaces – ensuring zero leakage.

LOW PRESSURE DROPS The low pressure drop of the Bray/Rite valve was achieved by Rite's many years of research and development in combination with universities and federal research agencies. Several theses and papers were published including *Minimizing the pressure loss of wafer type swing check valve ASME 79/MA-NE-5*. These results – primarily the optimum valve diameter and elliptical inlet shape – have been incorporated into the Bray/Rite design. Like a venturi, the aerodynamic shape accelerates the line media through the valve with the lowest

possible pressure drop. Pressure drops at the full open position are between 0.5 to 0.7 psi for all size valves. Additionally, the disc shape and mass have been optimized to use the pipeline media flow as a lifting force on the disc, thus allowing a full open valve position in low line velocity.

HIGH FLOW CAPACITY Bray/Rite's valve inlet elliptical shape and optimum diameter, plus its virtually unobstructed opening combine to produce a substantially higher flow capacity (C_V) than other wafer combination swing check valves.

REDUCED WATER HAMMER An additional focus of Rite's R&D program was linked to Water Hammer Prediction. Findings were applied in the design of the valve to largely reduce or eliminate water hammer by closing the valve at the right moment (before reverse flow occurs). The Bray/Rite uses gravity, assisted by an internal spring, to pull the disc toward the closed position on decelerating line media flow. Rite has developed proprietary predictive software to select the best solution for your specific application.



Bray/Rite.

Bray/Rite SEATS Zero leakage shut off, even at 0 psi, is achieved through lapped metal seating surfaces. The seat and the disc edges are precisely machined then hand polished for a perfect fit. The disc hinge provides an even force at the disc to seat contact point, ensuring a uniform seal. Controlled tolerances maintain the proper disc to seat alignment. The spring assisted closure tension holds the disc in place when line pressure is removed.

RESILIENT SEATS A dynamic, O-ring seat is contained in a specially designed body groove. As line pressure is applied, the valve disc uniformly compresses the seat into the groove ensuring a zero leakage seal. The seat is easily replaced, simplifying maintenance.

METAL-TO-METAL SEATS Integral metal seats feature an engineered and precision machined angle that minimizes the metal-to-metal contact point between the disc and seat for a perfect seal. Pressure is applied evenly over the disc, eliminating galling and reducing wear.

METAL SEAT INSERT Carbon steel and ductile iron bodies have a stainless steel seat inserted into the body seal area, offering the same precision design as the integral metal-to-metal seat. These bodies are also available with a Resilient Seat Insert.

INHERENTLY FIRE SAFE All Bray/Rite valves are inherently fire safe due to the valve design, materials and construction. In the event of a pipeline fire, both resilient seated and metal seated valves provide metal-to-metal contact between the seat and disc and surpass all leak test standards.

Valve Size	Cv	Min Flow to Va	Approx Pressure Drop w/ Water		
Inch/ mm		GPM	Ft/ sec.	PSI @ 10 ft/sec.	
1/25	30	28	10.4	0.78	
1.5 / 40	38	68	10.7	2.1	
2 / 50	84	46	4.4	1.7	
2.5/65	137	76	5.1	1.4	
3/75	221	197	8.5	1.1	
4 / 100	373	157	4	1.4	
5/125	679	352	5.6	1.1	
6 / 150	931	367	4.1	1.5	
8 / 200	1,440	428	2.7	1.6	
10/250	2,623	837	3.4	1.1	
12 / 300	3,531	1,229	3.5	1.2	
14/350	3,226	1,180	2.7	2	
16 / 400	3, 911	1,447	2.5	2.6	
18/450	5,799	3,376	4.8	1.7	
20 / 500	7,769	6,500	6.3	1.5	
24 / 600	10,105	8,321	5.9	1.6	
26 / 650	13,350	9,200	5.5	1.5	
28/700	15,000	9,520	5.6	1.5	
30/750	18,041	10,303	5.1	0.9	
32 / 800	20,900	12,150	5	1.4	
36 / 900	25,675	15,850	5.2	2	
40 / 1,000	39,340	25,310	6.1	2.4	
42 / 1,050	47,914	31,304	7.5	2.7	
48 / 1,200	44,983	33,095	5.9	1.6	
54 / 1,350	63,000	45,000	6	0.9	
60 / 1,500	70,500	62,800	6.2	1.1	

Notice the full open stable minimum velocity and the efficiency calculated at a normal velocity of 10 f/sec.

Resilient Seat



Metal-To-Metal Seat



Metal Seat Insert





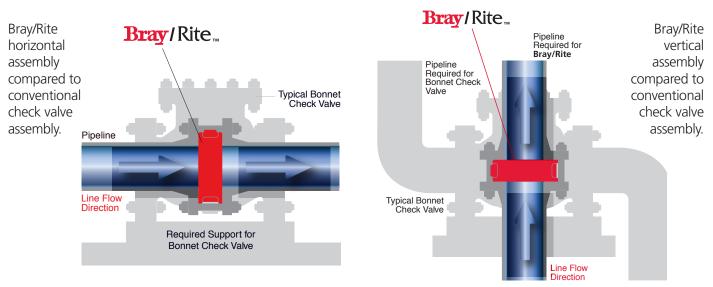
PUMPING COST SAVINGS

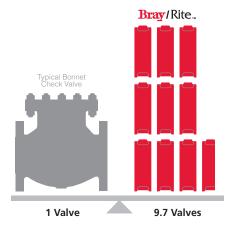
Pumping costs have been often overlooked but are now gaining in importance due to the increasing cost of energy. With Bray/ Rite's long service life, its cost is actually insignificant to the end user compared to the energy lost pumping the fluid through the valve. Below is a comparison between different valve styles, assuming all valves are 100% open.

		Yearly Energy Costs Comparison At 10 F/S - \$0.10/kWh										
VALVE SIZE / INCHES	2	2.5	3	4	5	6	8	10	12			
Bray/Rite	\$42	\$66	\$99	\$174	\$250	\$254	\$635	\$872	\$1,113			
Tilting Disc	\$50	\$66	\$102	\$161	\$250	\$272	\$425	\$606	\$739			
Center Guided "Silent"	\$115	\$214	\$339	\$608	\$1,002	\$1,409	\$2,541	\$4,006	\$3,447			
Full Size Swing Check	\$57	\$66	\$99	\$191	\$250	\$415	\$680	\$1,002	\$1,347			
Dual Door	\$218	\$209	\$314	\$441	\$491	\$707	\$979	\$1,118	\$1,282			
5		• • •	• • •	•	•							

HORIZONTAL / VERTICAL INSTALLATION

Unlike most conventional check valves, Bray/Rite wafer combination swing check valves are ideal for both horizontal and vertical pipeline installation – requiring only a single line for operation. This greatly increases pipeline layout flexibility and significantly reduces costs. In vertical installations, typical swing check valves must have an offset pipe section installed since these valves only function in a horizontal position. See factory for vertical down applications.





LIGHT WEIGHT & REDUCED SIZE

Installation costs are greatly reduced by Bray/Rite's light weight and minimal space requirements. Their compact design minimizes the distance between faces and are easily installed between all flanges. Bray/Rite valves do not require added support to maintain pipeline integrity and need only 30% of the space of typical full size swing check valves.

Bray/Rite.

Bray/Rite has designed and manufactured an extensive range of accessories for specific applications.

Some commonly used accessories and a PVC body uniquely designed for a specific application are shown below. Bray/Rite valves can be fitted with any one or a combination of accessories, including safety caging.



EXTERNAL LEVER & SPRINGS (SA-01)

Provide additional external force to anticipate closure in applications where rapid media flow reversal requires the valve to close faster than standard.

Applications: Pump protection when pumping in parallel into a common header.

DUAL WEIGHTS (SA-10)

Two opposing weights, one to adjust cracking pressure and one to counter balance the disc.

Applications: Insures valve is fully open on very low flows.





EXTERNAL LEVER & COMPRESSION SPRING (SA-40)

Provide additional force to anticipate valve closure, using an enclosed compression spring, in applications where rapid media flow reversal requires the valve to close faster than standard.

Applications: Pump protection when pumping in parallel into a common header, where spring force required is higher than a SA-01 or if an enclosed spring is preferred.

Slow the opening of the valve to protect the disc assembly in the last few degrees of travel. These units offer adjustable speed control and are ideal in fluctuating flow applications. The H-100 uses the SA-01 spring. The SA-50 uses the SA-40 compression spring.





WEIGHT (SA-16)

disc.

Provide additional external

mass to increase the cracking

pressure (pressure required to

closing force of the moving

open the disc) and increase the

Applications: Where increased

cracking pressure is required.

Waste Water service or where

suspended solids are present

in the process (the weight will

insure inertia induced positive

adjustable cracking pressure.

Provides remote indication of

valve position and a positive

indication of flow. If two are

closed position, the second the

fully opened valve. (A partially

installed the first shows the

opened valve is subject to

premature wear.)

Applications:

Automated

control

systems.

closure). Relief valve with

LIMIT SWITCH (SA-2)



EXTERNAL LEVER, SPRING & WEIGHT (SA-1)

These units use the combination of a weight and spring to add cracking pressure and closing force to the disc.

Applications: Where

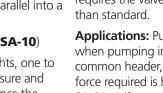
performing both functions of faster closure and solid handling are required, primarily in waste water



PVC (PEZ SA-4AX)

PVC Body with passivated stainless steel or titanium internals and position indication lever. Eliminates internal body corrosion.

Applications: Used for Salt water, marine life support systems, desalination applications.



HYDRAULIC PNEUMATIC SPEED CONTROLS (H-100, SA-50)

6 BRAY.COM/BRAY-RITE

THE RITE ACCESSORIES

SELECTION PROCESS

5	ELECTION PROCESS	JELECIK		
А	Gather Process Information	Descripti	on	
	Line Fluid / Pressure / Temperature /Flow Rate / Location / Function			
В	Gather Pipe Information	1	01-60	1" - 60" ASME
	Size / Material /	Size		25mm-1500m
	Flange Rating / Schedule		201	API 594 #400/
С	Select Valve Size – Based on:		203	API 594 #900/
	Full open valve at minimum flow		205	API 594 #150/
	• or Pipe size	2	210	Standard ASMI
D	Select Design Standard	Model	212	ULC FM Appro
	• ASME: 125 / 150 / 300		312	ULC FM Appro
	 API 594: 150 / 300 / 400 / 600 / 900 / 1500 / 2500 PN: 10 / 16 / 25 / 40 		260	Heavy Duty AS
F			211	Flanged Body
E	Verify Conditions Valve full open at minimum flow		10	PN 10
	Max velocity 15 f/sec for Liquid		12	ASME 125 lb
	Max velocity Mach 0.33 for Gas	2	15	ASME 150 lb
	Non-reciprocating service	3	16	PN 16
	No accessories required	Pressure	25	PN 25
	 Installed with a minimum of 5 pipe diameters upstream 	Class	30	ASME 300 lb
	and 3 downstream from a disturbance		40	PN 40
	 Not installed on close coupled multiple pump header 		-	Other
F	Select Model		C	ASTM A 126 C
	If answer is YES to All conditions:		D	ASTM A 395
	 Select Model 210 (ASME, DIN) Models 201 - 205 (API 594) 	4	S	ASTM A 216 W
	 or if ULC FM* approved required select 212 (ASME), 	Body	Х	ASTM A 351 C
	312 (DIN) 2"-12" ONLY	bouy	Т	Titanium
	If answer is NO to Any condition:		-	Other **
	Select Model 260 (ASME, DIN) Models 201 - 205 (API 594)		В	BUNA -N
G	Select Pressure Class and Body,	-	E	EPDM
	Seat & Spacers Materials, and	5	М	A240 - 304 (In
	specific application accessories as	Seat	Т	PTFE
	required		V	Viton
0	RDERING EXAMPLE		Т	PTFE (Standard
	6" heavy duty, Class 150 wafer combination swing check	6	Z	A479 - 316
	lve, carbon steel body with stainless steel inserted seat,	Spacer	_	Other **
	ainless steel spacers and an external spring accessory would		SA-01	External Spring
	e written as follows:		SA-1	External Spring
			SA-3	Backflush Leve
	06 15 SMZ SA01		SA-2	Limit Switch
			SA-4	External Positio
		7	SA-4A	Backflush Leve
		Special	SA-7	Emergency Shu
	(4)	Application	SA-10	Dual Balanced
		Assessories	SA-40	External Comp
	6		SA-16	External Weigh
			CA 40A	

5

SELECTION INFORMATION

Descripti	on		Color						
1 Size	01-60	1"- 60" ASME 25mm-1500mm DIN							
	201	API 594 #400/600	Red						
	203	API 594 #900/1500	Red						
	205	API 594 #150/300	Red						
2	210	Standard ASME / DIN							
Model	212	ULC FM Approved ASME *	Red						
	312	ULC FM Approved DIN *	Red						
	260	Heavy Duty ASME / DIN							
	211	Flanged Body							
	10	PN 10							
	12	ASME 125 lb							
3	15	ASME 150 lb							
-	16	PN 16							
Pressure	25	PN 25							
Class	30	ASME 300 lb							
	40	PN 40							
		Other							
	С	ASTM A 126 CLB	Red						
	D	ASTM A 395	Red						
4	S	ASTM A 216 WCB	Red						
Body	Х	ASTM A 351 CF8M							
,	Т	Titanium							
	-	Other **							
	В	BUNA -N							
F	E	EPDM							
5	Μ	A240 - 304 (Inserted or Integ	gral) ***						
Seat	Т	PTFE							
	V	Viton							
6	Т	PTFE (Standard on 1"-12" Ca	st Iron Bodies)						
•	Z	A479 - 316							
Spacer	_	Other **							
	SA-01	External Spring							
	SA-1	External Spring & Weight							
	SA-3	Backflush Lever and External	Spring						
	SA-2	Limit Switch							
	SA-4	External Position Indicator							
7	SA-4A	Backflush Lever							
Special	SA-7	Emergency Shut-off, Fusible L	ink						
Application	SA-10	Dual Balanced Weights							
Assessories	SA-40	External Compression Spring							
	SA-16	External Weight							
	SA-40A	External Compression Spring							
	H-100	External Spring, Weight, Hydr							
	SA-50		, Weight, & Hydraulic Damper						
	-	Other							

* ULC Approved under NFPA No. 11,13,14,15,20,22,24. FM Approved.

** Available in most exotic materials, please consult factory.

*** Inserted pressed-in interference seat at a minimum of

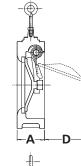
304 SS for carbon steel and ductile iron bodies, or seat is intergral to body.

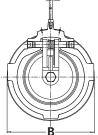
Note: Spacers are located on both sides of the disc hinge, ensuring a uniform seal.

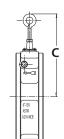
Note: The standard Bray/Rite is a wafer body style. Flanged Ends, RTJ style and other connections are available, please consult factory.

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Bray/Rite.







Nominal		A		A		В		C		D		Weight		Weight	
Pipe Size		210		20)5	210	/205					210 SS		205	SS
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
1	25	2	50.8			2 5⁄8	66.7	3.4	86.3					1.9	0.85
1½	40	21⁄2	63.5			3 %	85.7	4 1⁄8	104.7			3.8	1.8		
2	50	1 ¾ 21⁄8*	44.5	2 3⁄8	60.3	4 1⁄8	104.8	4 1⁄4	107.9	1 3⁄16	30.1	4.2	1.9	6.0	2.7
21⁄2	65	1 % 2% *	47.6	25⁄8	66.7	4 %	123.8	4 ¹ ⁄2	114.3	1 3⁄8	34.9	6.1	2.8	9.0	4.1
3	80	2 2 % *	50.8	21/8	73.0	5 3⁄8	136.5	5	127.0	1 5⁄8	41.2	8.4	3.8	13.0	5.9
4	100	21⁄4	57.2	21/8	73.0	6 %	174.6	5 ¾	146.0	2 3 ⁄4	69.8	13.5	6.2	19.3	8.75
5	125	2 ½	63.5	31⁄4	82.5	7 3 ⁄4	196.9	6 ¹ ⁄2	165.1	3 5⁄8	92.0	18.1	8.2	23.0	10.4
6	150	2 ¾	69.9	31/8	98.4	8 3 ⁄4	222.3	7 1⁄4	184.5	41⁄2	114.3	22.5	10.2	34.0	15.4
8	200	2 %	73.0	5	127.0	11	279.4	8 1⁄4	209.5	5 3 ⁄4	146.0	34.5	15.7	65.0	29.5
10	250	31⁄8	79.4	5 3 ⁄4	146.0	13 %	339.7	9 %	244.4	7 ¹ ⁄2	190.5	50.9	23.1	88.1	40
12	300	3 %	85.7	7 1⁄8	181.0	16 1⁄8	409.6	10 ¾	273.0	8 3 ⁄4	222.2	83.7	38.0	154.2	70
14	350	4¼	108.0	71⁄4	184.0	17 %	447.7	13	330.2	7 ¼	184.1	115.0	53.0	200	90.8
16	400	4¼	108.0	7 ¹ ⁄2	191.0	20 1⁄8	511.2	14 ½	368.3	8 1 ⁄4	209.5	130.0	59.0	230	104.4
18	450	41⁄4	108.0	8	203.0	21 1/2	546.1	15 ¼	387.3	101⁄2	266.7	170.0	77.2	320	145.3
20	500	5 ½	139.7	8 5⁄8	219.0	23 ¾	603.3	18 ¾	476.2	11	279.4	230.0	104.4	360	163.4
24	600	6	152.4	8 3 ⁄4	222.0	28 ¾ 16	716.0	20 ½	520.7	15	381.0	385.0	175.0	560	254.2
26	650			12.5	318	29.25	749.3	20.88	530.4	17	432.0			965	438.1
28	700	6 1⁄2	165.1			32 %	828.7	26	660.4	17 3⁄4	450.8	580.0	263.3		
30	750	9	228.6	12	305.0	34 %	879.5	27 ½	698.5	16 1 ⁄4	412.7	965.0	438.1	1300	590.2
32	800	9	228.6			36 1 3⁄16	936.8	29	736.6	16 ¾	425.4	1235.0	560.7		
36	900	11 ½	292.1	14 ½	368.0	41 1⁄8	1044.6	30	762.0	18 1 ⁄4	463.5	1525.0	692.4	2000	908.0
40	1000	11 ½	292.1			45 %	1158.9	35 ¼	895.3	21 ½	546.1	2200.0	998.8		
42	1050	12	304.8	17	432.0	48	1219.2	33 1⁄4	844.5	28	711.2	2235.0	1014.7	3200	1452.8
48	1200	14	355.6	20%	523.9	54 ½	1384.3	38 1⁄4	971.5	24 ½	622.3	3250.0	1475.5	3910	1775
54	1350	23	584.2			61	1549.4	43	1092.2	19 ¾	492.1	5500.0	2497.0		
60	1500	23	584.2			67 ¾	1711.3	38 1⁄4	971.5	33	838.2	7000.0	3178.0		
* For Cas	t Iron														

Models 210 (ANSI), 205 (API 594), Class 300

Models 210 (ANSI), 205 (API 594), Class 125/150

Nominal Pipe Size		А	A A		E	3	(:	E)	Wei	ght	Weight		
		210		205		210/205						210 SS		205 SS	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg	lbs	kg
1	25	2	50.8			2 7⁄8	73.0	3 ²⁄5	86.4			1.9	0.85		
11/2	40	2 1⁄2	63.5			3 3 ⁄4	95.2	4 1⁄8	104.8			4.4	2.0		
2	50	1 3 ⁄4	44.5	2 3⁄8	60.3	4 3⁄8	111.1	4 1⁄4	108.0	1 3⁄16	30.0	4.0	1.8	8.4	3.8
2 ¹ / ₂	65	1 %	47.6	2 5⁄8	66.7	5 ½	130.2	41⁄2	114.0	11⁄2	38.0	5.9	2.7	13.2	6.0
3	80	2	50.8	2 %	73.0	5 %	149.2	5	127.0	11 1⁄16	43.0	7.9	3.6	15.4	7.0
4	100	21⁄4	57.2	2 %	73.0	7 ½	181.0	5 3 ⁄4	146.0	2 7⁄16	62.0	11.9	5.4	22.5	10.2
5	125	21⁄2	63.5	31⁄4	82.5	81⁄2	215.9	6 ½	165.0	3 % 8	86.0	18.9	8.6	27.5	12.5
6	150	2 3 ⁄4	69.9	31/8	98.4	9 %	250.8	7 1⁄4	184.0	41⁄4	108.0	26.9	12.2	43.0	19.5
8	200	2 %	73.0	5	127.0	12 1⁄8	308.0	8 1⁄4	210.0	5 %	136.0	41.9	19.0	76.0	34.5
10	250	3 1⁄8	79.4	5 ¾	146.0	141⁄4	362.0	9 %	244.0	7	178.0	61.7	28.0	109.0	49.5
12	300	3 %	85.7	7 ½	181.0	16 %	422.3	10 ¾	273.0	8 ½	206.0	94.7	43.0	198.2	90.0
14	350	8 3 ⁄4	222.3	8 3 ⁄4	222.0	19 1⁄8	486.0	13	330.0	71⁄4	184.0	286.3	130.0	286.3	130.0
16	400	9 1⁄8	231.8	9 1⁄8	232.0	211⁄4	540.0	14 ½	368.0	81⁄4	210.0	352.4	160.0	352.4	160.0
18	450	10 %	263.5	10 %	264.0	23 ½	597.0	15 ¼	387.0	10 ½	267.0	440.5	200.0	440.5	200.0
20	500	11 ½	292.1	11 ½	292.0	25 3⁄4	654.0	18 ¾	476.0	11	280.0	572.7	260.0	572.7	260.0
24	600	12 1⁄2	317.5	12 1⁄2	318.0	30 ½	774.0	20 1⁄2	520.0	15	381.0	925.1	420.0	925.1	420.0

Model 201 (API 594), Class 600

Nominal Pipe Size		A		B 400lbs		B 600lbs		с		D		Weight	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs	kg
2	50	2 3⁄8	60.3	4 3⁄8	111.1	4 3⁄8	111.1	4 5⁄8	117	1⁄2	13	7	3
2 ¹ ⁄2	65	2 %	66.7	5 ½	130.2	5 ½	130.2	5 ½	130	5⁄8	16	10	4.5
3	80	2 %	73	5 %	149.2	5 %	149.2	6	152	3⁄4	19	14.5	6.6
4	100	31⁄8	79.4	7	177.8	75⁄8	193.7	6 ¾	171	11/2	38	24	11
6	150	5 %	136.5	9 3⁄4	247.6	10 ½	266.7	9 ½	241	21/8	54	54	25
8	200	6 1⁄2	165.1	12	304.8	125⁄8	320.7	10 ¾	273	2 3⁄4	70	96	44
10	250	8 %	212.7	14 1⁄8	358.8	15 3⁄4	400	12	305	3	76	171	78
12	300	9	228.6	16 ½	419.1	18	457.2	14 ¾	375	4 1⁄8	105	250	114



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