

*Duriron
Bell and
Spigot
Pipe and
Fittings*

Duriron Bell & Spigot Piping

For over 85 years Duriron Bell & Spigot piping has been providing a durable and reliable means to transport corrosive chemicals safely. Installed using traditional plumbing techniques, Duriron Bell & Spigot pipe requires little maintenance and often outlasts the life of the building or system in which it is used.

Duriron Bell & Spigot pipe and fittings provide a myriad of advantages other corrosion resistant piping do not. Among these are the following:

- Nearly universal corrosion resistance
- Safe above and below ground
- Longevity – Life of the building installation
- Can be mechanically or chemically cleaned
- Suitable to 500°F (260°C)
- Safe to use in return air plenums
- Fire and smoke proof
- No intumescent firestops
- Outstanding abrasion resistance
- Solids will not cling to the walls

Applications

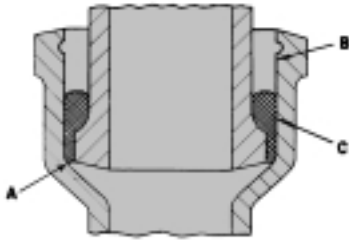
Anywhere you find acids, solvents, bleaches, detergents, or other aggressive fluids, Duriron pipe and fittings can be used. Duriron pipe is the best-engineered solution for handling traditional acid waste services, such as those found in hospitals, research laboratories, and schools and universities. However, its unique characteristics also make it ideally suited for many applications not normally deemed “acid waste.” One such non-traditional application is correctional facilities, where Duriron’s resistance to chlorine cleaning chemicals in combination with its ability to be mechanically cleaned make it a long lasting alternative to cast iron. Additionally, Duriron’s outstanding corrosion resistance lends itself to use in commercial or institutional kitchens and concessions, where highly acidic food waste, sodas, and cleaning chemicals are present.

Duriron Bell & Spigot pipe and fittings are intended for use in gravity fed applications. They are not designed for use under pressure.

Following is a partial list of applications for which Duriron pipe is ideally suited.

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| <ul style="list-style-type: none"> • Laboratories Schools Forensic Commercial/industrial • Food & Beverage Institutional kitchens Fast-food restaurants Soda fountains Beverage plants Dairies Confectioners • Pharmaceutical Plants Process waste | <ul style="list-style-type: none"> • Medical Facilities Hospitals Dialysis centers • Correctional Facilities • Commercial Operations Printing plants Plating processes Battery stations Paint/lacquer plants • Film Processing Photofinishing labs Film plants • Waste Water Treatment |
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Installation of Duriron Bell & Spigot Piping



Method of Installation

Duriron Bell & Spigot pipe is installed using traditional plumbing methods and is in accordance with all city and state plumbing codes.

A Duriron Bell & Spigot pipe joint is made using conventional plumbing tools, virgin lead, and special acid-resistant rope packing, called Red Stripe Sealite No. 312A. To make a joint, cut several segments of Sealite rope packing long enough to encircle the spigot (plain) end of the pipe and overlap approximately two inches.

Insert the spigot end of a pipe into the bell of the adjoining pipe, leaving a slight space (A) between the two lengths of pipe to avoid metal-to-metal contact and the resulting stress caused by the thermal expansion of the pipe. Using the blunt end of a yarning iron, firmly insert each segment of rope packing into the bell (C). The annular spacing between different pipes and fittings may vary. If the packing is difficult to insert initially, slightly flatten the rope packing with a hammer prior to insertion. A sufficient number of segments (generally three) shall be inserted such that the bell is approximately half full. To avoid a leak path, alternate by 90° the position where each segment of Sealite rope packing overlaps. *Do not continually wrap a single segment of Sealite rope packing as this type of installation provides a continuous leak path along the rope.*

Using virgin lead heated just to the melting point, pour a sufficient amount of lead over the rope packing, completely filling the hub (B). *Do not overheat the lead. The lead is too hot if it is a cherry red color.* After the lead has solidified, lightly caulk the joint, taking care not to strike the pipe. If the pipe or fitting is cold, SLOWLY warm the two ends to be joined prior to pouring the lead. *Flowserve Corporation does not recommend using a torch to warm the pipe as doing so may thermally shock the material, causing the pipe to crack.*

Red Stripe Sealite Rope Packing

Sealite is an asbestos free, acid resistant rope packing that is specially designed for use with Duriron Bell & Spigot pipe and fittings. Made of highly corrosion resistant materials, Sealite rope packing seals the Duriron Bell & Spigot pipe joints by absorbing large quantities of the service fluid, expanding to several times its original volume. *It is the packing that seals the joint, not the lead.*

Due to the aggressive environments in which Duriron Bell & Spigot piping is installed, it is essential that only Sealite rope packing be used. Hemp, oakum, and dry asbestos packing will not provide long lasting, leak proof joints.

Sealite rope packing is manufactured with a moisture content of 8-10% to make it soft and pliable for installation. It should feel "damp." To retain the necessary characteristics of Sealite rope packing, it is imperative the poly bag in which the Sealite is packaged not be left open for long periods of time. A wet sponge placed inside the bag will aid in keeping the rope at the optimum moisture content. *Do not use excessively wet or frozen Sealite rope packing as doing so may cause the molten lead to sputter and spit.* Thaw frozen Sealite rope packing before use. If the packing is too wet, allow the excess moisture to evaporate before use.

Hanging

In a horizontal run of pipe, Flowserve recommends supporting each length of Duriron Bell & Spigot pipe by a hanger. If the line consists in part of fittings, supports must be placed no further than seven feet apart. P-Traps must be supported individually. Supports must be placed directly beneath horizontal fittings that connect to the stack. Supports should not clasp the pipe so tightly as to prevent normal lateral movement due to expansion. Vertical lines of pipe must be supported at intervals not to exceed fourteen feet. Hangers may be any type and do not have to be padded.



Installation of Duriron Bell & Spigot Piping

Cont'd



Testing

Duriron Bell & Spigot piping should be tested in accordance with local plumbing codes. A head of 7-10 feet is sufficient since the Duriron piping is gravity fed. *Prior to testing Flowserve recommends filling the pipe with water and waiting 24 hours to allow the Sealite rope packing to absorb the fluid and sufficiently expand to seal the joint.*

Cutting

Due to its hardness, Duriron high silicon iron cannot be cut with a blade. Instead, Duriron can be cut in the field using a "chain" or "snap" cutter, either manual or hydraulic. These devices are made by such companies as Beaver, Reed, Ridgid, Springload, and Wheeler and do an excellent job of cutting high silicon iron. Using a chain or snap cutter, Duriron can be cut as quickly and as easily as cast iron. Field cut pipe requires no additional work to be installed.

Burying Underground or in Concrete

Duriron piping may be buried underground or set in concrete. No special precautions need to be observed and the pipe does not have to be coated. The first few inches of fill should be rock free.

Fire Safety (Return Air Plenums)

Duriron Bell & Spigot pipe and fittings do not burn or emit smoke. Consequently, it is safe and in accordance with fire regulations to use Duriron Bell & Spigot piping in return air plenums. No intumescent firestops are required in a Duriron installation.

Installation for Hot Services

Allowance for expansion is particularly important if very hot solutions are to be dumped into a Duriron drainage system. The shock of such applications may be violent when pipe lines are only partially full of hot liquids. In services where the temperature variations are unusual or the pipe lines extremely long, expansion joints or inverted traps are used to alleviate the problem. Common applications where such conditions exist include metal plating, pickling, and those with hot rinse tanks.

Painting

Duriron high silicon iron pipe and fittings may be painted. There is no coating to be removed or special preparation required.

Cleaning

Duriron Bell & Spigot piping may be cleaned using a mechanical sewer auger or chemicals without fear of damaging the pipe or joint.

Duriron High Silicon Iron



Duriron is a high silicon iron alloy that is resistant to practically all commonly used process chemicals and is recognized by architects, engineers, and plumbing contractors throughout the country as the superior material for handling acid waste.

Duriron conforms to ASTM specifications A518 and A861 and is approved by all plumbing codes. It obtains its outstanding corrosion resistance from the 14.5% silicon present in its composition. Duriron has unexcelled resistance to sulfuric, nitric, hydrochloric, and acetic acids. It is resistant to both oxidizing and reducing solutions and is not appreciably affected by either concentration or temperature. Duriron also is extremely abrasion and erosion resistant. Furthermore, Duriron pipe and fittings are cast with solid wall sections, meaning abrasion and corrosion resistance are not dependent upon a thin lining or coating, but are consistent throughout the wall thickness.

While the strength of Duriron is considerably greater than that of almost all non-metallic piping, the tensile strength of this material is less than most metals, including normal cast iron. Consequently, during handling caution should be exercised not to subject the pipe to undue mechanical stress or thermal shock.

Crushing Loads, lbs/ft (N/m)		Material and Mechanical Properties of Duriron	
Duriron	15,700 (22,912)	Density, lb/cu. in	0.255
Borosilicate Glass	1,200 (1,751)	Hardness, Brinell	520
Vitrified Tile	1,560 (2,277)	Thermal Conductivity, cgs	0.125
		Tensile Strength (1/2 inch dia. bar), psi	20,000

Warranty



Flowserve Corporation warrants all pipe, fittings, and accessories of its manufacture to be free from defects in material and workmanship. If any failure results from such cases within ten years after purchase, Flowserve Corporation will, after inspection by a factory representative, supply replacement parts at no charge to the customer. The liability of Flowserve Corporation is expressly limited to supplying such replacement parts.

Returned Material

The following conditions apply to the return of Duriron pipe and fittings. Credit, where applicable, will be issued approximately 60 days from the date of receipt of the returned items. Any questions regarding the return goods policy should be directed to the Flowserve Corporation, manufacturer of Duriron pipe and fittings, or your local Duriron representative.

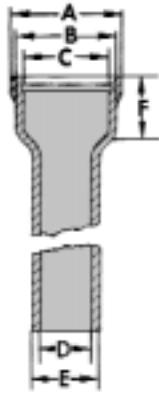
- Request for return authorization must be submitted to Flowserve Corporation or its representatives in writing. Such request must state the reason(s) for the return and reference the order(s) against which the material was purchased. Flowserve Corporation reserves the right to refuse return authorization on special make items, non-stocked items, or for any other reason. Flowserve Corporation also reserves the right to refuse the return of any list of material having a total list value less than \$100.00.
- Items must be returned freight prepaid FOB destination, unless Flowserve Corporation instructs otherwise.
- The return authorization tag(s) must accompany the returned item(s).
- Credit will be issued for items returned in saleable condition. Credit will not be given for items that are used, broken, or otherwise damaged.
- All returns are subject to a handling fee.
- Credit for returned items will be applied to the customer's account, unless notified in writing to issue credit in the form of a check.

For additional details regarding the terms applying to the return of materials, please contact Flowserve Corporation.

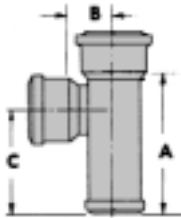
Shipping

All shipments are F.O.B. Dayton, Ohio. If export packing is necessary, please contact Flowserve Corporation for pricing.

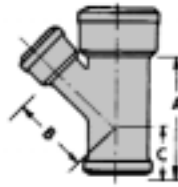
In the event of transportation shortages or damages, it is the responsibility of the customer to file any and all claims with the transportation company.

Hub and Plain End Pipe


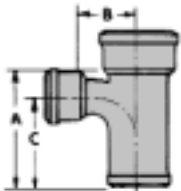
Size in (mm)	Part No.	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	Wt. lbs (kg)	Working Length ft (m)	Overall Length ft/in (mm)
2 (50)	BS36414AA	4 ⁹ / ₁₆ (116)	4 ³ / ₁₆ (106)	3 ⁵ / ₁₆ (84)	2 ¹ / ₃₂ (52)	2 ¹¹ / ₁₆ (68)	2 ⁵ / ₈ (67)	62 (28.1)	7 (2.1)	7' 2 ⁵ / ₈ " (2200)
3 (80)	BS36415AA	5 ⁵ / ₁₆ (135)	5 ³ / ₁₆ (132)	4 ⁵ / ₁₆ (110)	3 ¹ / ₈ (79)	3 ²⁵ / ₃₂ (96)	2 ⁵ / ₈ (67)	90 (40.8)	7 (2.1)	7' 2 ⁵ / ₈ " (2200)
4 (100)	BS36416AA	6 ³ / ₈ (162)	6 ³ / ₁₆ (157)	5 ⁵ / ₁₆ (135)	4 ¹ / ₈ (105)	4 ²⁵ / ₃₂ (121)	2 ⁵ / ₈ (67)	114 (51.7)	7 (2.1)	7' 2 ⁵ / ₈ " (2200)
6 (150)	BS36291AA	8 ¹⁷ / ₃₂ (217)	8 ¹¹ / ₃₂ (212)	7 ⁹ / ₁₆ (186)	5 ¹⁵ / ₁₆ (151)	6 ¹¹ / ₁₆ (170)	3 (76)	169 (76.7)	7 (2.1)	7' 2 ⁵ / ₈ " (2200)
8 (200)	BS36290AA	11 ¹ / ₄ (286)	10 ³ / ₄ (273)	9 ⁵ / ₈ (244)	8 ¹ / ₄ (210)	9 (229)	3 (76)	234 (106.1)	7 (2.1)	7' 2 ⁵ / ₈ " (2200)
10 (250)	D5650	14 ¹ / ₄ (362)	13 ³ / ₄ (349)	12 ¹ / ₄ (311)	10 (254)	11 ¹ / ₄ (286)	3 ⁷ / ₈ (98)	340 (154)	5 (1.5)	5' 3 ³ / ₈ " (1616)
12 (300)	D6500	16 ³ / ₄ (425)	16 (406)	14 ¹ / ₂ (368)	12 (305)	13 ¹ / ₄ (337)	4 (102)	470 (213)	5 (1.5)	5' 4" (1626)
15 (380)	D6550	20 ¹ / ₄ (514)	19 ³ / ₄ (502)	17 ³ / ₄ (451)	15 (381)	16 ³ / ₄ (425)	4 ¹ / ₈ (105)	800 (363)	5 (1.5)	5' 4 ¹ / ₈ " (1629)

Straight Tees


Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
2x1 ¹ / ₂ (50x40)	K1672-1.5	11 (5.0)	8 ¹ / ₂ (216)	1 ⁷ / ₈ (48)	6 ⁵ / ₈ (168)
2x2 (50x50)	K1672	12 (5.4)	9 (229)	2 (51)	7 (178)
3x2 (80x50)	K3892-2	17 (7.7)	9 (229)	2 ¹ / ₂ (64)	6 ¹³ / ₁₆ (173)
3x3 (80x80)	K3892	19 (8.6)	10 (254)	2 ¹ / ₂ (64)	7 ¹ / ₂ (190)
4x2 (100x50)	K3893-2	20 (8.1)	9 (229)	3 (76)	7 (178)
4x3 (100x80)	K3893-3	22 ¹ / ₂ (10.2)	10 (254)	3 (76)	7 ¹ / ₄ (184)
4x4 (100x100)	K3893	26 (11.8)	11 (279)	3 (76)	8 (203)

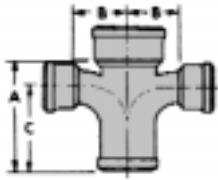
Sanitary Y Branches


Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
2x1 ¹ / ₂ (50x40)	D5026-1.5	11 (5.0)	8 ⁵ / ₈ (219)	4 ³ / ₈ (111)	4 ³ / ₈ (111)
2x2 (50x50)	D5026	12 (5.4)	9 (229)	4 ¹ / ₄ (108)	4 ¹ / ₄ (121)
3x1 ¹ / ₂ (80x40)	D5051-1.5	16 (7.3)	8 ⁵ / ₈ (219)	5 ¹ / ₁₆ (129)	3 ⁷ / ₈ (98)
3x2 (80x50)	D5051-2	17 (7.7)	9 (229)	5 (127)	4 ³ / ₁₆ (106)
3x3 (80x80)	D5051	21 (9.5)	10 ¹ / ₂ (267)	5 ¹ / ₂ (140)	5 (127)
4x1 ¹ / ₂ (100x40)	D5076-1.5	17 (7.7)	9 ¹ / ₈ (232)	5 ¹³ / ₁₆ (148)	3 ⁷ / ₈ (98)
4x2 (100x50)	D5076-2	21 (9.5)	9 (229)	5 ³ / ₄ (146)	3 ¹¹ / ₁₆ (94)
4x3 (100x80)	D5076-3	26 (11.8)	10 ¹ / ₂ (267)	6 ¹ / ₄ (159)	4 ¹ / ₂ (114)
4x4 (100x100)	D5076	30 (13.6)	12 (305)	6 ³ / ₄ (171)	5 ¹ / ₄ (133)
6x2 (150x50)	D5126A2	28 (12.7)	9 (229)	7 ¹ / ₈ (181)	2 ¹¹ / ₁₆ (68)
6x3 (150x80)	D5126A3	35 (15.9)	10 ¹ / ₂ (267)	7 ⁵ / ₈ (194)	3 ¹ / ₂ (89)
6x4 (150x100)	D5126A4	45 (20.4)	12 ¹ / ₄ (311)	8 ¹ / ₄ (210)	4 ¹ / ₄ (108)
6x6 (150x150)	D5126A	60 (27.2)	14 ³ / ₄ (375)	9 ¹ / ₈ (232)	5 ³ / ₄ (146)
8x2 (200x50)	D5602-2	60 (27.2)	16 ⁷ / ₈ (429)	9 (229)	4 ¹ / ₂ (114)
8x3 (200x80)	D5602-3	63 (28.6)	12 ¹ / ₈ (308)	9 (229)	3 ³ / ₄ (95)
8x4 (200x100)	D5602-4	65 (29.5)	13 ¹ / ₂ (343)	10 (254)	4 ¹ / ₂ (114)
8x6 (200x150)	D5602-6	79 (35.9)	16 ¹ / ₂ (419)	11 (279)	6 ¹ / ₁₆ (154)
8x8 (200x200)	D5602	117 (53.1)	19 ¹ / ₂ (495)	12 ¹ / ₄ (311)	7 ¹ / ₄ (184)
10x4 (250x100)	D5655-4	160 (72.6)	13 ¹ / ₂ (343)	11 ¹ / ₂ (292)	3 ¹ / ₂ (89)
10x6 (250x150)	D5655-6	165 (74.9)	16 ⁵ / ₈ (422)	13 ¹ / ₂ (343)	3 ⁷ / ₈ (98)
10x8 (250x200)	D5655-8	170 (77.2)	19 ³ / ₄ (502)	14 ³ / ₈ (365)	4 ³ / ₈ (111)
10x10 (250x250)	D5655	180 (81.7)	22 ¹ / ₂ (572)	15 (381)	7 ⁵ / ₈ (194)
12x4 (300x100)	CS12196B	173 (78.5)	18 ¹ / ₄ (464)	15 ⁵ / ₁₆ (386)	4 ¹ / ₂ (114)
12x6 (300x150)	CS12196A	196 (89.0)	18 ¹ / ₄ (464)	16 ¹ / ₂ (419)	4 ¹ / ₂ (114)
12x8 (300x200)	D6501-8	200 (90.8)	23 ³ / ₈ (594)	15 ¹ / ₂ (394)	5 (127)
12x10 (300x250)	D6501-10	275 (125)	27 (686)	19 ¹ / ₂ (495)	6 (152)
12x12 (300x300)	D6501	288 (131)	25 ¹ / ₂ (648)	18 ³ / ₈ (467)	7 ¹ / ₄ (184)
15x15 (380x380)	D6551	455 (207)	32 ¹ / ₈ (816)	22 ³ / ₄ (578)	8 ¹ / ₈ (206)

Sanitary T Branches


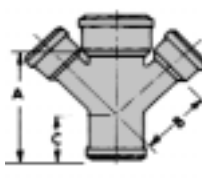
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
2x1 ¹ / ₂ (50x40)	D5027-1.5	11 (5.0)	8 ¹ / ₂ (216)	3 ¹ / ₂ (89)	6 ³ / ₄ (171)
2x2 (50x50)	D5027	12 (5.4)	9 (229)	3 ¹ / ₂ (89)	7 (178)
3x1 ¹ / ₂ (80x40)	D5052-1.5	16 (7.3)	8 ¹ / ₂ (216)	4 (102)	6 ³ / ₄ (171)
3x2 (80x50)	D5052-2	18 (8.2)	9 (229)	4 (102)	7 (178)
3x3 (80x80)	D5052	20 (9.1)	10 (254)	4 (102)	7 ¹ / ₂ (190)
4x1 ¹ / ₂ (100x40)	D5077-1.5	18 (8.2)	8 ¹ / ₂ (216)	4 ¹ / ₂ (114)	6 ³ / ₄ (171)
4x2 (100x50)	D5077-2	19 (8.6)	9 (229)	4 ¹ / ₂ (114)	7 (178)
4x3 (100x80)	D5077-3	26 (11.8)	10 (254)	4 ¹ / ₂ (114)	7 ¹ / ₂ (190)
4x4 (100x100)	D5077	28 (12.7)	11 (279)	4 ¹ / ₂ (114)	8 (203)
6x2 (150x50)	D5127A2	31 (14.1)	9 (229)	5 ¹ / ₂ (140)	7 (178)
6x3 (150x80)	D5127A3	33 (15.0)	10 (254)	5 ¹ / ₂ (140)	7 ¹ / ₂ (190)
6x4 (150x100)	D5127A4	35 (15.9)	11 (279)	5 ¹ / ₂ (140)	8 (203)
6x6 (150x150)	D5127A	50 (22.7)	13 (330)	5 ¹ / ₂ (140)	9 (229)
8x4 (200x100)	D5603-4	62 (28.1)	10 ⁵ / ₈ (270)	6 ¹ / ₄ (159)	8 (203)
8x6 (200x150)	D5603-6	65 (29.5)	14 ¹ / ₂ (368)	6 ⁵ / ₈ (168)	10 ¹ / ₂ (267)
8x8 (200x200)	D5603	113 (51.3)	19 (483)	6 ⁵ / ₈ (168)	13 ¹ / ₂ (343)
10x6 (250x150)	D6702-6	130 (59.0)	14 ¹ / ₄ (362)	7 ⁵ / ₈ (194)	10 ¹ / ₂ (267)
10x10 (250x250)	D6702	180 (81.7)	21 (533)	7 ³ / ₄ (197)	14 ¹ / ₂ (368)
12x8 (300x200)	D6502-8	187 (84.9)	19 (483)	8 ³ / ₄ (222)	13 ¹ / ₂ (343)

Double Branch Sanitary Tee



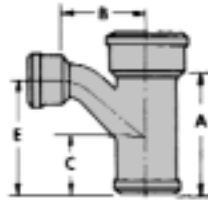
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
2x1 1/2 (50x40)	D5027DB1.5	14 (6.4)	8 1/2 (216)	7 (178)	6 3/4 (171)
2x2 (50x50)	D5027DB	16 (7.3)	9 (229)	7 (178)	7 (178)
3x1 1/2 (80x40)	D5052DB1.5	15 (6.8)	8 1/2 (216)	8 (203)	6 3/4 (171)
3x2 (80x50)	D5052DB2	17 (7.7)	9 (229)	8 (203)	7 (178)
3x3 (80x80)	D5052DB	22 (10.0)	10 (254)	8 (203)	7 1/2 (190)
4x1 1/2 (100x40)	D5077DB1.5	18 (8.2)	8 1/2 (216)	9 (229)	6 3/4 (171)
4x2 (100x50)	D5077DB2	21 (9.5)	9 (229)	9 (229)	7 (178)
4x3 (100x80)	D5077DB3	24 (10.9)	10 (254)	9 (229)	7 1/2 (190)
4x4 (100x100)	D5077DB	37 (16.8)	11 (279)	9 (229)	8 (203)
6x3 (150x80)	D5127ADB3	50 (22.7)	10 (254)	11 (279)	7 1/2 (190)
6x4 (150x100)	D5127ADB4	46 (20.9)	11 (279)	11 (279)	8 (203)
6x6 (150x150)	D5127ADB	58 (26.3)	13 (330)	11 (279)	9 (229)
8x6 (200x150)	D5603DB6	80 (36.3)	14 1/2 (368)	13 1/4 (337)	10 1/2 (267)
8x8 (200x200)	D5603DB	113 (51.3)	19 (483)	6 5/8 (168)	13 1/2 (343)

Double Branch Sanitary Y



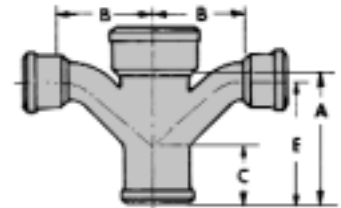
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
2x1 1/2 (50x40)	D5026DB1.5	14 (6.4)	8 5/8 (219)	4 3/8 (111)	4 3/8 (111)
2x2 (50x50)	D5026DB	15 (6.8)	9 (229)	4 1/4 (108)	4 3/4 (121)
3x1 1/2 (80x40)	D5051DB1.5	19 (8.6)	8 5/8 (219)	5 1/16 (129)	3 7/8 (98)
3x2 (80x50)	D5051DB2	20 (9.1)	9 (229)	5 (127)	4 3/16 (106)
3x3 (80x80)	D5051DB	28 (12.7)	10 1/2 (267)	5 1/2 (140)	5 (127)
4x1 1/2 (100x40)	D5076DB1.5	21 (9.5)	9 1/8 (232)	5 13/16 (148)	3 7/8 (98)
4x2 (100x50)	D5076DB2	23 (10.4)	9 (229)	5 3/4 (146)	3 11/16 (94)
4x3 (100x80)	D5076DB3	26 (11.8)	10 1/2 (267)	6 1/4 (159)	4 1/2 (114)
4x4 (100x100)	D5076DB	33 (15.0)	12 (305)	6 3/4 (171)	5 1/4 (133)
6x2 (150x50)	D5126ADB2	31 (14.1)	9 (229)	7 1/8 (181)	2 11/16 (68)
6x3 (150x80)	D5126ADB3	46 (20.9)	10 1/2 (267)	7 5/8 (194)	3 1/2 (89)
6x4 (150x100)	D5126ADB4	52 (23.6)	12 (305)	8 1/8 (206)	4 1/4 (108)
6x6 (150x150)	D5126ADB	65 (29.5)	14 3/4 (360)	9 1/8 (232)	5 3/4 (146)
8x4 (200x100)	D5602DB4	71 (32.2)	13 1/2 (343)	10 (254)	10 1/2 (267)
8x6 (200x150)	D5602DB6	86 (39.0)	16 1/2 (419)	11 (279)	6 1/16 (154)

Sanitary Combination Y and 1/8 Bend (T-Y)



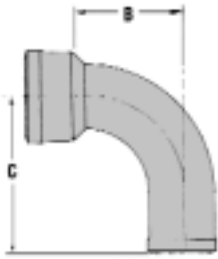
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)	E in (mm)
2x1 1/2 (50x40)	D5028-1.5	11 (5.0)	8 5/8 (219)	4 5/8 (117)	4 3/8 (111)	7 3/8 (187)
2x2 (50x50)	D5028	13 (5.9)	9 (229)	5 1/4 (133)	4 3/4 (121)	8 1/4 (210)
3x1 1/2 (80x40)	D5053-1.5	14 (6.4)	8 5/8 (219)	5 1/8 (130)	3 7/8 (98)	7 3/8 (187)
3x2 (80x50)	D5053-2	18 (8.2)	9 (229)	5 3/4 (146)	4 3/16 (106)	8 3/16 (208)
3x3 (80x80)	D5053	24 (10.9)	10 1/2 (267)	6 1/2 (165)	5 (127)	9 9/16 (243)
4x1 1/2 (100x40)	D5078-1.5	17 (7.7)	9 1/8 (232)	5 7/8 (149)	3 7/8 (98)	8 1/8 (206)
4x2 (100x50)	D5078-2	21 (9.5)	9 (229)	6 1/4 (159)	3 11/16 (94)	8 3/16 (208)
4x3 (100x80)	D5078-3	23 (10.4)	10 1/2 (267)	7 (178)	4 1/2 (114)	9 9/16 (243)
4x4 (100x100)	D5078	31 (14.1)	12 (305)	7 3/4 (197)	5 1/4 (133)	10 13/16 (275)
6x2 (150x50)	D5128A2	33 (15.0)	9 (229)	7 1/4 (184)	2 11/16 (68)	8 3/16 (208)
6x3 (150x80)	D5128A3	37 (16.8)	10 1/2 (267)	8 (203)	3 1/2 (89)	9 9/16 (243)
6x4 (150x100)	D5128B4	47 (21.3)	12 (305)	8 3/4 (222)	4 1/4 (108)	10 13/16 (275)
6x6 (150x150)	D5128AA	63 (28.6)	15 (381)	10 1/4 (260)	5 3/4 (146)	13 7/16 (341)
10x6 (250x150)	D6703-6	185 (83.9)	16 3/4 (425)	12 1/2 (318)	4 7/16 (113)	4 3/8 (365)
10x8 (250x200)	D6700-8	192 (87.2)	21 3/8 (543)	15 1/8 (384)	6 1/2 (165)	18 1/2 (470)

Double Branch Sanitary Combination Y and 1/8 Bend (T-Y)



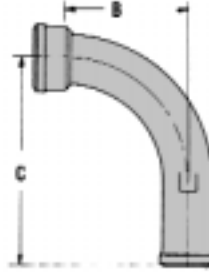
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)	E in (mm)
2x1 1/2 (50x40)	D5028DB1.5	15 (6.8)	8 5/8 (219)	9 1/4 (235)	4 3/8 (111)	7 3/8 (187)
2x2 (50x50)	D5028DB	17 (7.7)	9 (229)	10 1/2 (267)	4 3/4 (121)	8 1/4 (210)
3x1 1/2 (80x40)	D5053DB1.5	17 (7.7)	8 5/8 (219)	10 1/4 (260)	3 7/8 (98)	7 3/8 (187)
3x2 (80x50)	D5053DB2	22 (10.0)	9 (229)	11 1/2 (291)	4 3/16 (106)	8 3/16 (208)
3x3 (80x80)	D5053DB	27 (12.3)	10 1/2 (267)	13 (330)	5 (127)	9 9/16 (243)
4x1 1/2 (100x40)	D5078DB1.5	24 (10.9)	9 1/8 (232)	11 3/4 (298)	3 7/8 (98)	8 1/8 (206)
4x2 (100x50)	D5078DB2	24 (10.9)	9 (229)	12 1/2 (318)	3 11/16 (94)	8 3/16 (208)
4x3 (100x80)	D5078DB3	28 (12.7)	10 1/2 (267)	14 (356)	4 1/2 (114)	9 9/16 (243)
4x4 (100x100)	D5078DB	40 (18.2)	12 (305)	15 1/2 (394)	5 1/4 (133)	10 13/16 (275)
6x3 (150x80)	D5128ADB3	45 (20.4)	10 1/2 (267)	16 (406)	3 1/2 (89)	9 9/16 (243)
6x4 (150x100)	D5128BDB4	57 (25.9)	12 (305)	17 1/2 (444)	4 1/4 (108)	10 13/16 (275)
6x6 (150x150)	D5128AADB	83 (37.7)	15 (381)	20 1/2 (521)	5 3/4 (146)	13 7/16 (341)

Short Sweep Quarter Bends



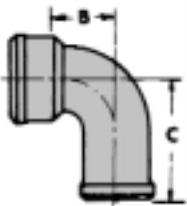
Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	BS15899A	11 (5.0)	5 ¹ / ₄ (133)	8 (203)
3 (80)	WS15900A	20 (9.1)	6 (152)	9 (229)
4 (100)	WS15901A	25 (11.4)	6 ¹ / ₂ (165)	10 (254)

Long Sweep Quarter Bends



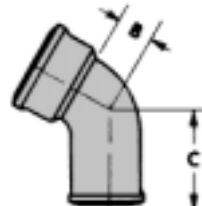
Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	WS5044A	14 (6.4)	8 ¹ / ₂ (216)	12 (305)
3 (80)	WS5069A	24 (10.9)	9 (229)	12 ¹ / ₂ (318)
4 (100)	D5094A	29 (13.2)	9 ¹ / ₂ (241)	13 (330)
6 (150)	D5143AA	47 (21.3)	10 ¹ / ₂ (267)	14 (356)
8 (200)	D5618A	98 (44.5)	11 ¹ / ₈ (283)	15 (381)

Quarter Bends



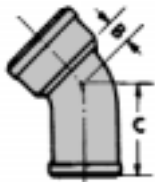
Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	D5031	9 (4.1)	3 ¹ / ₂ (89)	7 (178)
3 (80)	D5056	16 (7.3)	4 (102)	7 ¹ / ₂ (190)
4 (100)	D5081	20 (9.1)	4 ¹ / ₂ (114)	8 (203)
6 (150)	WS5131C	36 (16.3)	5 ¹ / ₂ (140)	9 (229)
8 (200)	D5606	54 (24.5)	6 ¹ / ₈ (156)	10 (254)
10 (250)	D6706	116 (52.7)	8 ⁵ / ₈ (219)	12 (305)
12 (300)	D6506	195 (88.5)	10 ³ / ₈ (264)	14 (356)

Sixth Bends



Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	D5046	8 (3.6)	2 ¹ / ₄ (57)	5 ³ / ₄ (146)
3 (80)	D5071	11 (5.0)	2 ¹ / ₂ (64)	6 (152)
4 (100)	D5096	15 (6.8)	2 ³ / ₁₆ (56)	6 ⁵ / ₁₆ (160)
6 (150)	D5145A	27 (12.3)	3 ³ / ₈ (86)	6 ⁷ / ₈ (175)
8 (200)	CS12194A	71 (32.2)	4 ¹ / ₈ (105)	9 (229)

Eighth Bends



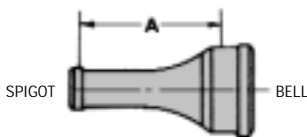
Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	D5032	7 (3.2)	1 ³ / ₄ (44)	5 ¹ / ₄ (133)
3 (80)	D5057	13 (5.9)	1 ¹⁵ / ₁₆ (49)	5 ⁷ / ₁₆ (138)
4 (100)	D5082	16 (7.3)	2 ³ / ₁₆ (56)	5 ¹¹ / ₁₆ (144)
6 (150)	D5132A	25 (11.4)	2 ⁹ / ₁₆ (65)	6 ¹ / ₁₆ (154)
8 (200)	D5607	46 (20.9)	3 ¹¹ / ₁₆ (94)	8 ¹³ / ₁₆ (224)
10 (250)	D5657	95 (43.1)	4 ¹ / ₄ (108)	9 ¹ / ₄ (235)
12 (300)	D6507	132 (59.9)	5 (127)	9 ⁵ / ₈ (244)

Sixteenth Bends



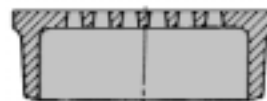
Size in (mm)	Part No.	Wt. lbs (kg)	B in (mm)	C in (mm)
2 (50)	D5041	6 (2.7)	1 ¹ / ₈ (29)	4 ⁵ / ₈ (117)
3 (80)	D5066	8 (3.6)	1 ³ / ₁₆ (30)	4 ¹¹ / ₁₆ (119)
4 (100)	D5091	11 (5.0)	1 ⁵ / ₁₆ (33)	4 ¹³ / ₁₆ (122)
6 (150)	D5140A	21 (9.5)	1 ¹ / ₂ (38)	5 (127)
8 (200)	D5615	44 (20.0)	2 ¹ / ₁₆ (52)	7 ¹ / ₈ (181)
10 (250)	S1245A	80 (36.3)	2 (51)	6 ⁷ / ₈ (175)

Sanitary Increasers



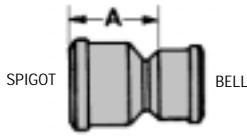
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)
2x3 (50x80)	D5037-3	9 (4.10)	9 (229)
2x4 (50x100)	D5037-4	13 (5.9)	9 (229)
2x6 (50x150)	D5037A6	17 (7.7)	9 (229)
3x4 (80x100)	D5062-4	17 (7.7)	9 (229)
3x6 (80x150)	D5062A6	16 (7.3)	9 (229)
4x6 (100x150)	D5087A6	17 (7.7)	9 (229)
4x8 (100x200)	D5087-8	33 (15.0)	11 ⁵ / ₈ (295)
6x8 (150x200)	D8080-8	50 (22.7)	11 ⁷ / ₈ (302)
8x10 (200x250)	D5612-10	85 (38.6)	16 (406)

Hub Strainers



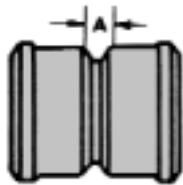
Size in (mm)	Part No.	Wt. lbs (kg)
2 (50)	AS6288A	2 ¹ / ₂ (1.1)
3 (80)	BS19643A	3 (1.4)
4 (100)	D1977AB	5 (2.3)
6 (150)	BS3366AA	10 (4.5)
8 (200)	BS3367AA	18 (8.2)

Sanitary Reducers



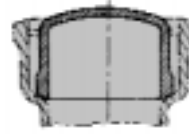
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)
2x1 1/2 (50x40)	D5036-1.5	5 (2.3)	5 (127)
3x1 1/2 (80x40)	D5061-1.5	6 (2.7)	5 (127)
3x2 (80x50)	D5061-2	7 (3.2)	5 (127)
4x1 1/2 (100x40)	D5086-1.5	7 (3.2)	5 (127)
4x2 (100x50)	D5086-2	9 (4.1)	5 (127)
4x3 (100x80)	D5086-3	11 (5.0)	5 (127)
6x2 (150x50)	D5136A2	12 (5.4)	5 (127)
6x3 (150x80)	D5136A3	13 (5.9)	5 (127)
6x4 (150x100)	D5136A4	14 (6.4)	5 (127)
8x4 (200x100)	D5601-4	22 (10.0)	6 (152)
8x6 (200x150)	D5601-6	25 (11.4)	6 (152)
10x6 (250x150)	D6711-6	39 (17.7)	6 (152)
10x8 (250x200)	D6711-8	51 (23.2)	6 (152)
12x6 (300x150)	D6511-6	55 (25.0)	6 1/2 (165)
12x8 (300x200)	D6511-8	65 (29.5)	6 (152)
12x10 (300x250)	D6511-10	83 (37.7)	6 (152)
15x6 (380x150)	D6561-6	79 (35.9)	6 (152)
15x12 (380x300)	D6561-12	109 (49.5)	6 (152)

Double Hubs



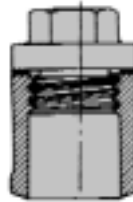
Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)
2 (50)	D5039	6 1/2 (3.0)	1 (25)
3 (80)	D5064	9 (4.1)	1 (25)
4 (100)	D5089	12 (5.4)	1 (25)
6 (150)	D5138	18 (8.2)	1 (25)
8 (200)	D5613	40 (18.2)	2 (51)
10 (250)	D6714	82 (37.2)	2 (51)

Pipe Plugs



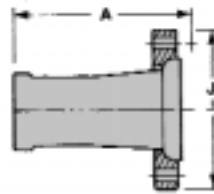
Size in (mm)	Part No.	Wt. lbs (kg)
2 (50)	D8006	2 (0.9)
3 (80)	D8007	3 (1.4)
4 (100)	D8008	5 (2.3)
6 (150)	D8009A	10 (4.5)
8 (200)	K2722	17 (7.7)
12 (300)	BS14120A	56 (25.4)

Cleanout Plugs



Size in (mm)	Part No.	Wt. lbs (kg)
2 (50)	SA2707AA00	3 1/2 (1.6)
3 (80)	SA2708AA00	6 1/2 (3.0)
4 (100)	SA2709AA00	11 (5.0)
6 (150)	SA2719AA00	14 (6.4)
8 (200)	SA2720AA00	26 (11.8)
10 (250)	SA2721AA00	39 (17.7)

Adapter / Spigot* and Split Flange

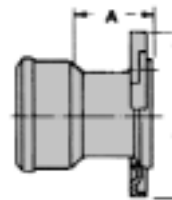


Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	J in (mm)
2 (50)	PH3615BA	5 (2.3)	5 3/4 (146)	6 (152)
3 (80)	PH3615CA	11 (5.0)	7 (178)	7 1/2 (190)
4 (100)	PH3615DA	12 (5.4)	8 (203)	9 (229)
6 (150)	PH3615F	22 (10.0)	9 1/2 (241)	11 (279)
8 (200)	PH3615G	44 (20.0)	10 3/4 (273)	13 1/2 (343)

*A Duriron M.J. Coupling may be used on the spigot end in the 2, 3 and 4" sizes.

Split Flange Bolt Circle, Size and Number of Bolt Holes are to ANSI Class 150

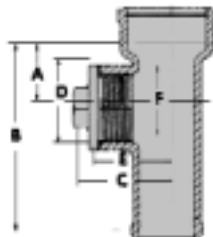
Adapter / Bell and Split Flange



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	J in (mm)
2 (50)	PH3612B	5 (2.3)	2 1/2 (64)	6 (152)
3 (80)	PH3612C	7 (3.2)	2 1/2 (64)	7 1/2 (190)
4 (100)	PH3612D	12 (5.4)	2 3/4 (70)	9 (229)
6 (150)	PH3612F	16 (7.3)	3 (76)	11 (279)
8 (200)	PH3612G	36 (16.3)	3 1/2 (89)	13 1/2 (343)

Split Flange Bolt Circle, Size and Number of Bolt Holes are to ANSI Class 150

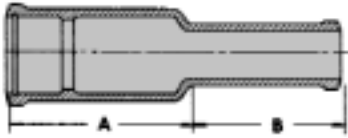
Combination Cleanout and Test Tees



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)
2 (50)	SA3759AA00	12 (5.4)	2 1/2 (64)	9 (229)	3 13/16 (97)	3 5/8 (92)	3 1/16 (78)	2 7/8 (73)
3 (80)	SA3762AA00	22 (10.0)	2 7/8 (73)	10 (254)	5 (127)	4 5/8 (117)	4 1/4 (108)	3 13/16 (97)
4 (100)	SA3760AA00	29 (13.2)	3 9/16 (91)	11 (279)	5 7/16 (138)	5 5/8 (143)	4 1/2 (114)	4 13/16 (122)

Threads are cast, not pipe threads.
Countersunk heads available at no extra cost.

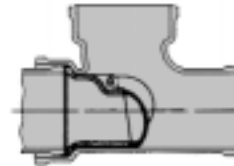
Insertable Joints



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)
2 (50)	D5045	11 (5.0)	7 ³ / ₄ (197)	6 ¹ / ₂ (165)
3 (80)	D5070	17 (7.7)	8 ³ / ₈ (213)	7 ³ / ₈ (187)
4 (100)	D5095	21 (9.5)	9 ¹ / ₈ (232)	7 ⁷ / ₈ (200)
6 (150)	D5144A	37 (16.8)	9 ¹ / ₈ (232)	7 ⁷ / ₈ (200)

Backwater Valves / Palmer Type

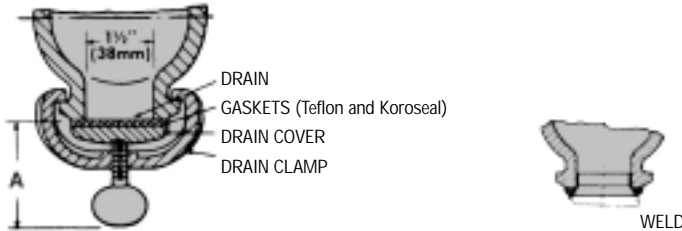
For caulking into a sanitary T. Tee should be ordered separately.



Size in (mm)	Part No.
3 (80)	SA2733AA00
4 (100)	SA2734AA00
6 (150)	SA2735AA00
8 (200)	SA2736AA00

Detailed Cross Section of Cleanout

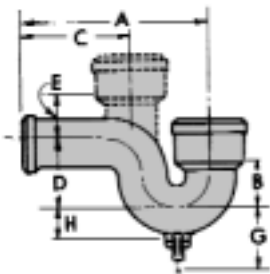
Standard traps carried in stock are made with cleanouts, as illustrated.



Size in (mm)	Dia. of Drain in (mm)	A in (mm)
Under 6" (150 mm and under)	1 ¹ / ₂ (38)	2 ³ / ₁₆ (56)
6" and over (over 150 mm)	2 ¹ / ₄ (57)	2 ⁹ / ₁₆ (65)

Traps can be supplied without cleanouts, as shown (left) at same prices, but require longer for delivery.

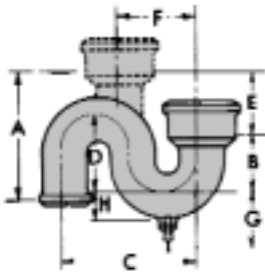
Sanitary P Traps



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	G in (mm)	H in (mm)	Vent in (mm)
2 (50)	Without Vent SA2695AA00	12 (5.4)	11 (279)	3 (76)	6 ¹ / ₄ (159)	4 ¹ / ₂ (114)	2 ¹ / ₄ (57)	3 ¹³ / ₁₆ (97)	1 ⁵ / ₈ (41)	2 (51)
2 (50)	Hub Vent SA2701AA00	16 (7.3)								
2 (50)	Less Cleanout P5033D	12 (5.4)								
3 (80)	Without Vent SA2696AA00	25 (11.4)	12 ¹ / ₂ (318)	4 ¹ / ₄ (108)	6 ¹ / ₄ (159)	5 ¹ / ₂ (140)	3 (76)	4 ¹ / ₂ (114)	2 ⁵ / ₁₆ (59)	3 (76)
3 (80)	Hub Vent SA2702AA00	32 (14.5)								
3 (80)	Less Cleanout P5058D	25 (11.4)								
4 (100)	Without Vent SA2697AA00	37 (16.8)	14 (356)	5 ¹ / ₂ (140)	7 (178)	6 ¹ / ₂ (165)	3 ¹ / ₄ (83)	5 ³ / ₁₆ (132)	3 (76)	4 (102)
4 (100)	Hub Vent SA2703AA00	45 (20.4)								
4 (100)	Less Cleanout P5083D	37 (16.8)								
6 (150)	Without Vent SA2699AA00	68 (30.9)	17 (432)	8 ¹ / ₂ (216)	8 (203)	8 ¹ / ₂ (216)	4 (102)	6 ¹ / ₂ (165)	3 ¹⁵ / ₁₆ (100)	4 (102)
6 (150)	Hub Vent SA2705AA00	80 (36.3)								
6 (150)	Less Cleanout P5133E	68 (30.9)								

NOTE: Depth of seal on all traps is 2¹/₂ inches. Sanitary P Traps with hub vent also available less cleanout.

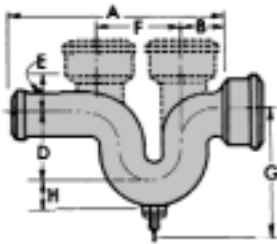
Sanitary S Traps



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	H in (mm)	Vent in (mm)
2 (50)	Without Vent SA2690AA00	16 (7.3)	9 ¹ / ₄ (235)	3 (76)	8 (203)	4 ¹ / ₂ (114)	3 ³ / ₄ (95)	4 ³ / ₄ (121)	3 ¹³ / ₁₆ (97)	1 ⁵ / ₈ (41)	2 (51)
2 (50)	Hub Vent SA2677AA00	18 (8.2)									
3 (80)	Without Vent SA2691AA00	24 (10.9)	10 ¹ / ₂ (267)	4 ¹ / ₄ (108)	10 (254)	5 ¹ / ₂ (140)	4 ¹ / ₄ (108)	6 ¹ / ₄ (159)	4 ¹ / ₂ (114)	2 ⁵ / ₁₆ (65)	3 (76)
3 (80)	Hub Vent SA2678AA00	29 (13.2)									
4 (100)	Without Vent SA2692AA00	33 (15.0)	11 ¹ / ₄ (286)	5 ¹ / ₂ (140)	12 (305)	6 ¹ / ₂ (165)	4 ¹ / ₄ (108)	7 (178)	5 ⁵ / ₁₆ (132)	3 (76)	4 (102)
4 (100)	Hub Vent SA2679AA00	39 (17.7)									
6 (150)	Without Vent SA2693AA00	82 (37.2)	14 (356)	8 ¹ / ₂ (216)	16 (406)	8 ¹ / ₂ (216)	5 (127)	9 (229)	6 ¹ / ₂ (165)	3 ¹⁵ / ₁₆ (100)	4 (102)
6 (150)	Hub Vent SA2680AA00	89 (40.4)									

NOTE: Depth of seal on all traps is 2¹/₂ inches. Available with and without cleanouts. Customer should indicate on order.

Sanitary Running Traps



Size in (mm)	Part No.	Wt. lbs (kg)	A in (mm)	B in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	H in (mm)	Vent in (mm)
2 (50)	Without Vent SA2682AA00	14 (6.4)	13 ¹ / ₂ (343)	2 ¹ / ₂ (64)	4 ¹ / ₂ (114)	2 ¹ / ₂ (64)	5 ¹ / ₄ (133)	8 ⁵ / ₁₆ (211)	1 ⁵ / ₈ (41)	2 (51)
2 (50)	Single Hub Vent SA2662AA00	16 (7.3)								
2 (50)	Double Hub Vent SA2663AA00	12 (5.4)								
3 (80)	Without Vent SA2683AA00	25 (11.4)	15 ¹ / ₂ (394)	3 (76)	5 ¹ / ₂ (140)	3 ¹ / ₄ (83)	6 ¹ / ₄ (159)	10 (254)	2 ⁵ / ₁₆ (59)	3 (76)
3 (80)	Single Hub Vent SA2664AA00	32 (14.5)								
3 (80)	Double Hub Vent SA2665AA00	25 (11.4)								
4 (100)	Without Vent SA2684AA00	37 (16.8)	17 ¹ / ₂ (444)	3 ¹ / ₂ (89)	6 ¹ / ₂ (165)	3 ¹ / ₂ (89)	7 ¹ / ₄ (184)	11 ¹¹ / ₁₆ (297)	3 (76)	4 (102)
4 (100)	Single Hub Vent SA2666AA00	45 (20.4)								
4 (100)	Double Hub Vent SA2667AA00	37 (16.8)								
6 (150)	Without Vent SA2686AA00	68 (30.9)	21 ¹ / ₂ (546)	4 ¹ / ₂ (114)	8 ¹ / ₂ (216)	4 ¹ / ₄ (108)	8 ¹ / ₄ (210)	15 (381)	3 ¹⁵ / ₁₆ (100)	4 (102)
6 (150)	Single Hub Vent SA2670AA00	80 (36.3)								
6 (150)	Double Hub Vent SA2671AA00	68 (30.9)								
8 (200)	Without Vent SA2687AA00	162 (73.5)	26 ⁷ / ₈ (683)	5 ¹ / ₂ (140)	11 (279)	3 ⁷ / ₈ (98)	12 (305)	18 ⁷ / ₁₆ (468)	5 ¹ / ₄ (133)	6 (152)
8 (200)	Single Hub Vent SA2672AA00	165 (74.9)								
8 (200)	Double Hub Vent SA2673AA00	208 (94.4)								
10 (250)	Without Vent SA2688AA00	330 (150)	31 ⁷ / ₈ (810)	7 ¹ / ₈ (181)	13 (330)	5 ¹ / ₈ (130)	16 (406)	22 ¹ / ₄ (565)	6 ¹¹ / ₁₆ (170)	6 (152)
10 (250)	Single Hub Vent SA2674AA00	334 (152)								
10 (250)	Double Hub Vent SA2675AA00	346 (157)								

NOTE: Single Hub Vent is located on the inlet side. Depth of seal on 8" and 10" traps is 3". All others 2¹/₂". Available with and without cleanouts. Customer should indicate on order.

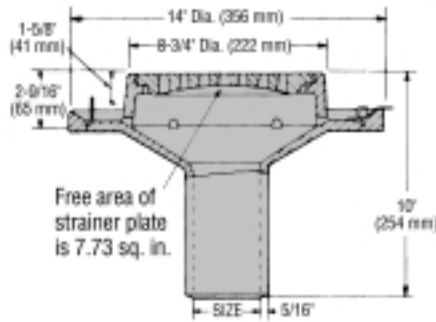
Floor Drains – Outside Caulk

OUTSIDE CAULK

D5501AC (without flashing ring)

D5501ACF (with flashing ring)

Part No.	Outlet Size in (mm)	Wt. lbs (kg)
D5501AC	2, 3, 4 and 6 (50, 80, 100 and 150)	45 (20.4)
D5501ACF	2, 3, 4 and 6 (50, 80, 100 and 150)	45 (20.4)

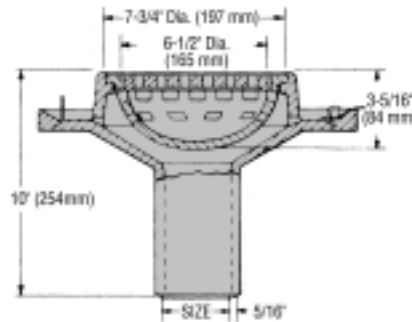


OUTSIDE CAULK WITH BASIN

D5501ACB (without flashing ring)

D5501ACBF (with flashing ring)

Part No.	Outlet Size in (mm)	Wt. lbs (kg)
D5501ACB	2, 3, 4 and 6 (50, 80, 100 and 150)	53 (24.1)
D5501ACBF	2, 3, 4 and 6 (50, 80, 100 and 150)	53 (24.1)



Floor Drains – Inside Caulk

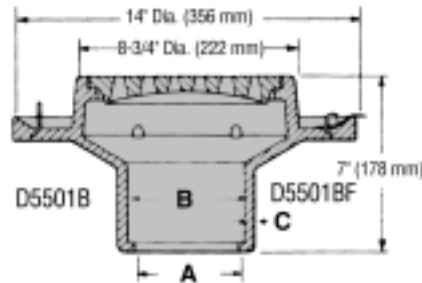
D5501B (without flashing ring)

D5501BF (with flashing ring)

D5501BB (with sediment basin and without flashing ring)

D5501BBF (with sediment basin and with flashing ring)

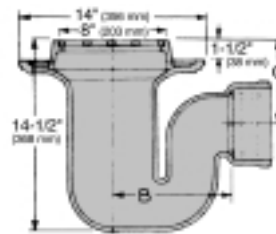
Part No.	Size in (mm)	Wt. lbs (kg)	A in (mm)	B in (mm)	C in (mm)
D5501B, BF, BB and BBF	2 (50)	41 (18.6)	2 ⁷ / ₈ (73)	3 ¹ / ₂ (89)	5 ¹ / ₁₆ (8)
	3 (80)	42 (19.1)	3 ⁷ / ₈ (98)	4 ¹ / ₂ (114)	5 ¹ / ₁₆ (8)
	4 (100)	48 (21.8)	4 ⁷ / ₈ (124)	5 ¹ / ₂ (140)	3 ³ / ₈ (10)
	6 (150)	49 (22.2)	7 (178)	7 ³ / ₄ (197)	3 ³ / ₈ (10)



D9058-3, D9058-4

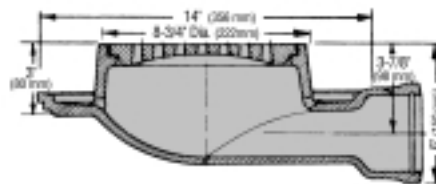
Part No.	Size in (mm)	Wt. lbs (kg)	B in (mm)	C in (mm)
D9058-3	3 (80)	70 (31.8)	9 (229)	5 ⁷ / ₈ (149)
D9058-4	4 (100)	73 (33.1)	9 (229)	6 ³ / ₈ (162)

For Basin with Plate 9058, use 9058 B3 and 9058 B4.



D9334, D9334B (with Sediment Basin)

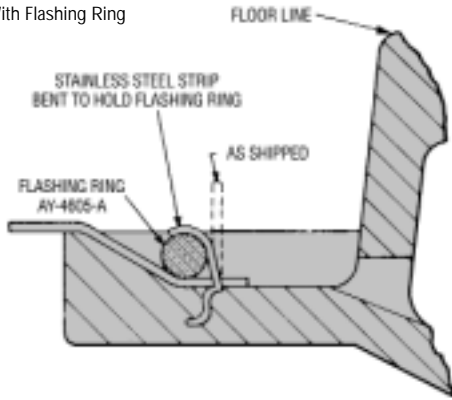
Part No.	Outlet Size in (mm)	Wt. lbs (kg)
D9334	2 (50)	37 (16.8)
D9334B	2 (80)	45 (20.4)



Strainer plates are duplex stainless steel. Basins are Duriron as standard, but are available in duplex stainless steel on special order at extra cost.

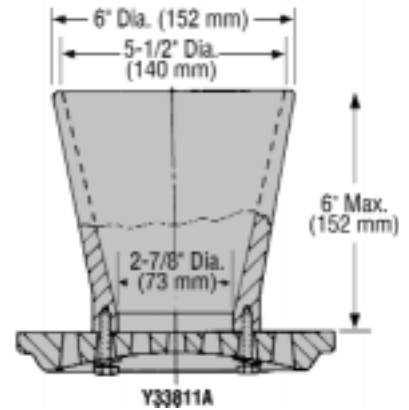
Method of Installation

With Flashing Ring

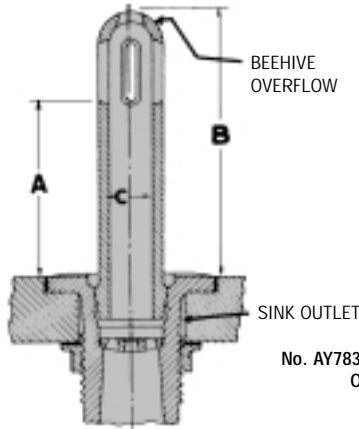


Floor Drain Funnel Attachment*

Funnel attaches to duplex stainless steel strainer plates of floor drains. Funnel body, screws and washers are stainless steel. (Approximately 4 pounds.)



Overflow



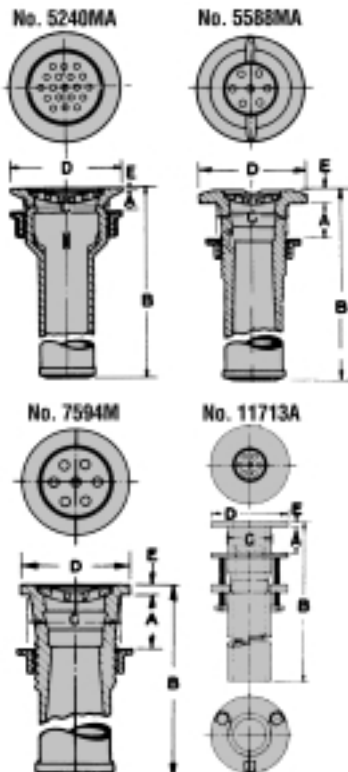
No. AY7831A, B, C, D and E Overflows

Part No.	A* in (mm)	B* in (mm)	C in (mm)
AY7831 A	2 (51)	4 1/8 (105)	1 (25)
AY7831 B	4 (102)	6 1/8 (156)	1 (25)
AY7831 C	6 (152)	8 1/8 (206)	1 (25)
AY7831 D	8 (203)	10 1/8 (257)	1 (25)
AY7831 E	0 (0)	2 1/8 (54)	1 (25)

For all sink strainers marked as both 1 1/2" or 2" size, except plate 5240 and 11713.

*Dimensions A and B will vary depending upon the sink strainer in which overflow is placed, depth of counterbore, etc. B is given only as a guide.

Sink Outlet



Part No.	Size in (mm)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	Stoppers	Strainers
5240MA	1 1/2 or 2 (40 or 50)	3/4 to 1 1/4 (19 to 32)	10 (254)	3 1/2 (89)	4 3/8 (111)	1/8 (3)	K5496A	AS7948A
5588MA	1 1/2 or 2 (40 to 50)	1 to 2 (25 to 51)	10 (254)	2 1/2 (64)	3 7/8 (98)	7/16 (11)	AY7412A	D6021A
7594M	1 1/2 or 2 (40 or 50)	1 to 2 (25 to 51)	10 (254)	2 1/2 (64)	3 (76)	1/4 (6)	AY74121A	D6021A
11713A	1 1/2 (40)	0 to 2 (0 to 51)	10 1/4 (260)	1 7/8 (48)	3 5/16 (84)	1/4 (6)	AY12178A	AY49679A

Furnished with stoppers and flat loose strainer plates. Stoppers and strainers may be purchased individually.

Acid Resisting Packing

Approximate Packing Per Joint*								
Pipe Size in (mm)	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	15 (380)
Length ft (m)	2.0 (0.6)	2.7 (0.8)	3.6 (1.1)	5.1 (1.6)	6.6 (2.0)	8.8 (2.7)	10.5 (3.2)	13.6 (4.1)
Weight lbs (kg)	0.16 (0.07)	0.22 (0.10)	0.29 (0.13)	0.41 (0.19)	0.53 (0.24)	0.71 (0.32)	0.84 (0.38)	1.09 (0.49)

Packing SEALITE No. 312A			
Package Size	Diameter in (mm)	Lineal feet (m)	Approx lbs per ft (kg/m)
10 lbs	0.375 (9.6)	118 (35.9)	0.08 (0.12)

*Calculated on three rounds per joint. Larger sizes above 8" may require more rounds. Rule of caulking bell approximately half full of packing predominates and preempts chart.

Specifications

Long Form: Chemical Waste Drain and Vent Piping System

I. General

- A. Contractor shall furnish and install a chemical waste piping system as indicated herein. This system shall consist of extra heavy weight, high silicon iron pipe and fittings conforming to the most recent revision of ASTM Specifications A518 and A861, as manufactured under the trade name of "Duriron" by the Flowserve Corporation, to be used for above and below grade construction.
- B. This chemical waste piping system shall include high silicon iron pipe and fittings of the Bell & Spigot or Mechanical Joint type. It may also include acid-resistant, asbestos-free rope packing or mechanical joint couplings, as manufactured by Flowserve Corporation for use with Duriron Bell & Spigot piping and Duriron Mechanical Joint piping, respectively. Where Duriron Bell & Spigot piping is to be used, virgin lead also is required for proper installation.
- C. All materials shall comply with the requirements and referenced standards listed in the International Plumbing Code and all applicable local codes.

II. Joints

- A. Duriron Bell & Spigot joints shall be made using virgin lead and Red Stripe Sealite A312 acid-resistant rope packing.
- B. Duriron Mechanical Joint piping shall be installed using a two-bolt, mechanical joint coupling, as manufactured by Flowserve Corporation. The Duriron mechanical joint coupling consists of an inner sleeve of PTFE, an outer sleeve of Neoprene rubber (a product of the DuPont DeNemours Company), and an outer band of 300-series stainless steel. Mechanical Joint couplings shall be installed by alternately tightening the nuts to a minimum of 9 ft-lbs and a maximum of 11 ft-lbs torque.
- C. Duriron may be joined to other types of piping by using adapters made by Flowserve Corporation or the other manufacturer. Glass and other metallic piping systems may be joined to Duriron using a Duriron hub fitting and caulking the joint with Red Stripe Sealite A312 rope packing and virgin lead.

Specifications*Cont'd***III. Sink Connections**

Sink outlets, tailpieces, traps, and trap adapters shall be high silicon iron or PTFE, as manufactured under the trade name Duriron by the Flowserve Corporation.

IV. Installation & Testing

- A. All material shall be installed in accordance with the manufacturer's instructions and in compliance with the International Plumbing Code and all applicable local codes.
- B. Each length of pipe in a horizontal run shall be supported by a hanger. If the line consists in part of fittings, supports shall be placed no further than seven feet apart. P-Traps must be supported individually. Supports shall be placed directly beneath horizontal fittings that connect to the stack. Vertical lines of pipe shall be supported at intervals not to exceed fourteen feet. Hangers shall not clasp the pipe so tightly as to prevent normal lateral movement due to expansion.
- C. Test in accordance with all applicable code requirements. Prior to testing, Duriron Bell & Spigot and Mechanical Joint piping shall be filled with water and allowed to sit for 24 hours.

V. Above Grade Piping

Piping and fittings located in air plenums shall be smoke-proof and non-combustible, in compliance with the flame and smoke spread ratings of ASTM E84.

VI. Below Grade Piping

- A. A trench shall be excavated so as to provide adequate room to make joints, align, and grade the pipe. The trench bottom shall be properly compacted and rock-free and shall support the pipe throughout its entire length.
- B. Fill material shall be applied in layers not exceeding 6 inches loose depth and each layer shall be thoroughly compacted. The first 6 inches of fill material shall be rock-free.

Short Form:**Chemical Waste Drain and Vent Piping System**

This system shall consist of high silicon iron pipe and fittings conforming to the most recent revision of ASTM Specifications A518 and A861, as manufactured under the trade name of "Duriron" by the Flowserve Corporation. Pipe and fittings shall be of the Bell & Spigot or Mechanical Joint type installations and be suitable for above and below grade construction.

Where used, Bell & Spigot type joints shall be made using virgin lead and Red Stripe Sealite A312 acid-resistant rope packing. Duriron Mechanical Joint piping shall be installed using a two-bolt, mechanical joint coupling, as manufactured by Flowserve Corporation. The mechanical joint coupling shall consist of an inner sleeve of PTFE, an outer sleeve of Neoprene rubber (a product of The DuPont DeNemours Company), and an outer band of 300-series stainless steel. Mechanical joint couplings shall be installed by alternately tightening the nuts to a minimum of 9 ft-lbs and a maximum of 11 ft-lbs torque.

For systems being installed underground, a trench shall be excavated so as to provide adequate room to make joints, align, and grade the pipe. The trench bottom shall be properly compacted and rock-free and shall support the pipe throughout its entire length. Fill material shall be applied in layers not exceeding 6 inches loose depth and each layer shall be thoroughly compacted. The first 6 inches of fill material shall be rock-free.

The system shall be installed and tested in accordance with the manufacturer's instructions and all governing plumbing codes.

Materials Engineering

Multiple Casting Processes

Reactive Alloy Expertise

Rapid Prototyping

Technical Support



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