

Designation: A 861 - 01a

Standard Specification for High-Silicon Iron Pipe and Fittings¹

This standard is issued under the fixed designation A 861; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers high-silicon iron pipe and pipe fittings intended for corrosion-resistant service for both aboveand below-grade construction.

1.2 Pipe and pipe fittings shall be the no-hub (MJ) or the hub and plain end design.

1.3 Pipe and pipe fittings shall be of the sizes specified in Table 1 and Table 2 and Figs. 1-71 or other sizes that shall be permitted to conform to the requirements given herein.

1.3.1 *Pipe*:

1.3.1.1 No-hub (MJ) (Fig. 1):

1.3.1.2 Hub/Plain End (Fig. 35):

Sanitary T Branches	13
Double Branch Sanitary T	14
Sanitary Running Traps	15
Sanitary P Traps	16
Swivel Trap P-Style Short	17
Swivel Trap P-Style Long	18
Swivel Trap S-Style Long	19
Centrifugal Drum Trap P Swivel Type	20
Centrifugal Drum Trap S Swivel Type	21
Combination Cleanout and Test Tees	22
Coupling	23
Pipe Plugs	24
Cleanout Plugs	25
No-hub (MJ) Adapter	26
Reducers—Increasers	27
Sink Outlet	28
Sink Overflows	29
Threaded Adapters	30
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(MJ) (No-hub) to Lead Adapter	33
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OCUMENT 1.3.3 Fitting (Hub/Plain End):

Size (in.)	Length (ft)		F ire
2	7	Liub Diain End Ding	Figs.
3	7 🔥	Hub Plain End Pipe	35
4	7 🕰	<u>SIM Að Straight Tees</u>	36
https://standard6.iteh.ai/catalog/sta	ndar ā s/sist/	9201d53 Sanitary T Branches Sanitary Y Branches	a861-1 <mark>37</mark> a
8	7	Double-Branch Sanitary Tee	39
10	5	Double-Branch Sanitary Y	40
12	5	Double-Branch Sanitary Combination Y and 1/8 Bend (T-Y)	40
15	5	Short-Sweep Quarter Bends	41
		Long-Sweep Quarter Bends	42
1.3.2 Fitting (No-hub) (MJ):		Sanitary Combination Y and 1/8 Bend (T-Y)	43
		Quarter Bends	44
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Quarter Bends	Fig		40
	2		47
Sixth Bends			
Return Bends	4		49
Double-Branch Quarter Bend	Ę		50
Eighth Bends		S Sanitary Reducers	51
Sixteenth Bends		7 Double Hubs	52
Long-Sweep Quarter Bends	8		53
Sanitary Y Branches	ę	5	54
Double-Branch Sanitary Y	10		55
Sanitary Combination Y and 1/8 Bend	11		56
Double-Branch Sanitary Combination Y and 1/8 Bend	12		57
		Insertable Joints	58
		Backwater Valves	59
		Sanitary P Traps	60

¹ This specification is under the jurisdiction of ASTM Committee A04 on Iron Castings and is the direct responsibility of Subcommittee A04.12 on Pipes and Tubes.

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Sanitary S Traps

Floor Drains

Floor Drains

Sanitary Running Traps

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Sink Outlet	70
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2. Referenced Documents

2.1 ASTM Standards:

- A 438 Test Method for Transverse Testing of Gray Cast Iron²
- A 518/A 518M Specification for Corrosion-Resistant High-Silicon Iron Castings²
- E 350 Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron³
- E 351 Test Methods for Chemical Analysis of Cast Iron— All Types³

2.2 Other Standards:

Uniform Classification Rules⁴

National Motor Freight Classification⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *MJ*—an abbreviation for mechanical joint.

3.1.2 *no-hub*—a pipe or fittings without a hub, sometimes described as hubless joined by a coupling.

3.1.3 *hubless*—a pipe or fitting without a hub, sometimes called no-hub, joined by a coupling.

4. Ordering Information

4.1 Ordering for material under this specification shall include as a minimum the following information:

4.1.1 ASTM designation, grade (see Table 3) and year of issue.

4.1.2 Description of the casting by figure number (see Figs. 1 through 71) or by manufacturer's drawings or catalog number, or both.

4.1.3 Length, diameter, and type of pipe and size and shape of fittings.

4.1.4 Quantity.

4.1.5 Certification requirements.

4.1.6 Special packaging requirements (see Section 14).

4.1.7 Supplemental requirements desired, if any.

5. Materials and Manufacture

5.1 The castings shall be produced by any established commercial practice applicable to high-silicon iron.

5.2 The castings shall be true to pattern, reasonably smooth, and free from defects that would make the castings unfit for the use for which they are intended.

6. Chemical Composition

6.1 An analysis of each heat shall be made by the manufacturer from a test sample that is representative of the heat and that is taken during the heat. A heat shall consist of all castings poured from a furnace or crucible melt without recharging new metal into the furnace. The chemical composition thus determined shall conform to the requirements for the grade selected specified in Table 3.

6.2 A product analysis shall be permitted to be made by the purchaser from material representing the heat. The chemical composition thus determined shall meet the requirements specified in Table 1 or shall be subject to rejection by the purchaser.

6.3 Spectrometric or other instrumental methods and wet laboratory methods are acceptable for routine control determinations. Any method employed shall give essentially the same results as reference methods listed in Test Methods E 350. (For selected detailed methods of analysis, see Specification A 518, paragraph 6.4).

7. Heat Treatment

7.1 All centrifugally cast high-silicon iron pipe shall be supplied in the as-cast condition. All other pipe and fittings shall be supplied in the stress-relieved condition.

7.2 Stress relieving shall be performed as follows:

7.2.1 Hold the casting at 1650°F (870°C) minimum for 2 h plus an additional hour per inch of section thickness for castings over 2 in. in thickness.

7.2.2 Cool the castings to 400° F (205°C) maximum at a rate not to exceed 100° F (55°C)/15 min.

7.2.3 From 400°F (205°C) to ambient, the castings shall be permitted to be cooled in still, ambient air.

8. Joints V

8.1 Acid-proof joints for hub/plain-end pipe shall require the use of an acid-proof rope packing.

6 8.2 No-hub pipe and fittings shall require a special acid resistant mechanical joint (MJ) coupling. One satisfactory coupling consists of an inner PTFE sleeve surrounded by neoprene. The two-bolt coupling is made of stainless steel. These couplings enable easy, reliable installations and are readily available.

8.3 High-silicon iron pipe can be cut with either manual or hydraulic snap cutters. Field cuts shall be permitted to be readily used with mechanical joint couplings to provide acceptable leak-proof joints.

9. Dimensions and Permissible Variations

9.1 Pipe:

9.1.1 Hub/plain-end pipe shall have a hub at one end and a plain end at the other and shall be cast in one piece (see Fig. 35).

9.1.2 Individual length of hub/plain-end pipe shall be either 7 or 5 ft nominal laying lengths as shown in Fig. 35.

9.1.3 Any deflections in the barrel of a single length of pipe shall not exceed $\frac{3}{16}$ in.

9.1.4 No-hub pipe shall be cast in a single piece and conform to nominal dimensions shown in Fig. 1.

9.1.5 No dimension of hub/plain-end pipe shall exceed the tolerances specified in Table 1.

9.2 *Fittings*—All fittings shall conform to the nominal dimensions specified in applicable figures and be within the

² Annual Book of ASTM Standards, Vol 01.02.

³ Annual Book of ASTM Standards, Vol 03.05.

⁴ Available from Available Trucking Assoc., Traffic Dept., 2200 Mill Rd., Alexandria, VA 22314.

tolerances specified in Table 2 for fittings listed in Figs. 2 through 34 or in Table 1 for fittings listed in Figs. 36 through 39.

10. Inspection

10.1 Inspection and Test by the Manufacturer—Pipe and fittings shall be inspected by the manufacturer prior to shipment. Inspection by the manufacturer shall include all tests as specified herein. All tests and inspection with the exception of product analysis shall be made at the place of manufacture unless otherwise agreed upon.

10.2 Inspection and Test by the Purchaser—The manufacturer shall afford the purchaser's inspector all reasonable facilities necessary to satisfy him that the material is being produced and furnished in accordance with this specification. Foundry inspection by the purchaser shall not interfere unnecessarily with the manufacturer's operations.

11. Rejection and Rehearing

11.1 Material that shows unacceptable discontinuities as determined by the acceptance standards specified in the order, subsequent to its acceptance at the manufacturer's works, shall be rejected and the manufacturer shall be notified within 30 days unless otherwise agreed upon.

12. Certification

12.1 Upon request of the purchaser, the manufacturer shall certify that his product conforms to the requirements of this specification. The results of tests shall be furnished to the purchaser upon request as mutually agreed upon.

13. Product Marking

13.1 Each length of pipe and fitting shall be identified by the manufacturer's name or identification mark. Marking shall be as not to impair the usefulness of the part.

13.2 Samples that represent rejected material shall be preserved for a minimum of 2 weeks from the date of transmission of the rejection report. In case of dissatisfaction with the results of the tests, the manufacturer shall be permitted to make claim for a rehearing within that time.

14. Packaging

14.1 Unless otherwise specified, the material shall be packaged in accordance with the supplier's standard practice and acceptable to the carrier at the lowest rates. Containers and packing shall comply with Uniform Classification Rules or National Motor Freight Classification Rules.

15. Keywords

15.1 no-hub; corrosion resistant; fittings; high-silicon iron; hub/plain-end; plain-end; hubless

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The following supplementary requirements are for use when desired by the purchaser. They shall not apply unless specified in the order, in which event the specified tests shall be made by the https://smanufacturer.before.shipment of the castings.

S1. Transverse Bend Tests

S1.1 Transverse bend properties shall be determined from material representing each heat and shall meet the requirements shown in Table S1.1. Properties thus measured shall be considered representative of the quality of the high-silicon iron but may not represent properties in the actual castings.

S1.2 Transverse bend tests shall be conducted in accordance with Test Method A 438 except as follows:

S1.2.1 The specimens shall not be machined or ground and shall conform to the dimensions in Fig. 72.

S1.2.2 The specimens shall be cast in patterns in accordance with Fig. 73.

S1.2.3 The specimens shall be heat treated in accordance with Section 6.

S1.2.4 The actual breaking load shall be reported. The requirements of Table 2 allow for any deviation due to variations in test bar diameter. The deflection at fracture shall also be reported without correction.

S1.2.5 The rate of loading shall produce 0.025-in. (0.64-mm) deflection in 50 to 70 s. Continue loading at this rate until the specimen fractures.

S2. Hydrostatic Testing

S2.1 Hydrostatic tests at 40 psi, minimum, shall be conducted on all castings specified in the order. Any leak revealed by this test shall be cause for rejection for the individual piece. A leak shall include any evidence of moisture on the outside diameter of the part established to have occurred due to through-wall leakage.

TABLE 1 Tolerances for High-Silicon Iron Hub/Plain-End Pipe

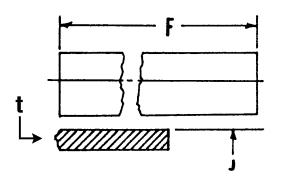
NOTE 1-1 in. = 25.4 mm.

Size, in.	Wall Thickness, in.	ID Tolerance, in.	OD Tolerance, in.
2	±1/32	±1/32	±1/32
3	±1/32	±1/32	±1/32
4	±1/32	±1/32	±1/32
6	±1/32	±1/32	± 3⁄64
8	±1/32	± 1/8	±1/8
10	± 1/8	± 1/8	± 1/8
12	± 1/8	± 1/8	±1/8
15	± 1/8	±1⁄8	±1/8

TABLE 2 Tolerances for High-Silicon Iron Fittings

NOTE $1-1$ in. = 25.4 mm	NOTE	1 - 1	in.	= 25.4	mm.
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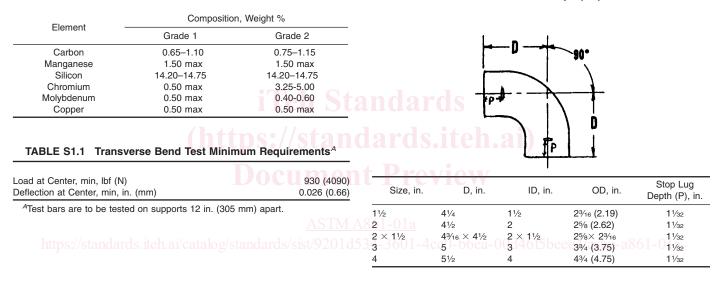
Size, in.	ID Tolerance, in.	OD Tolerance, in.	Stop Lug Depth Tolerance, in.
11/2	±1/16	±1⁄16	±1/16
11/2 × 11/2	±1/16	± 1/16	±1/16
2	±1/16	± 1/16	±1/16
$2 \times 1\frac{1}{2}$	±1/16	±1/16	±1/16
2×2	±1/16	±1/16	±1/16
3	±1/16	± 1/16	±1/16
$3 imes 1\frac{1}{2}$	±1/16	± 1/16	±1/16
3×2	±1/16	± 1/16	±1/16
3 imes 3	±1/16	±1/16	±1/16
4	±1/16	±1/16	±1/16
$4 \times 1\frac{1}{2}$	±1/16	$\pm \frac{1}{16}$	±1/16
4×2	±1/16	$\pm \frac{1}{16}$	±1/16
4×3	±1/16	$\pm \frac{1}{16}$	±1/16
4×4	±1⁄16	±1⁄16	±1/16



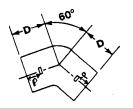
Size, in.	J, in.	F, in.	t, in.
11/2	23/16 (2.19)	84	5⁄16
2	211/16 (2.69)	84	5⁄16
3	349/64 (3.77)	84	5⁄16
4	449/64 (4.77)	84	5⁄16

TABLE 3 Chemical Composition

Note 1—1 in. = 25.4 mm. FIG. 1 No-Hub Pipe (MJ)

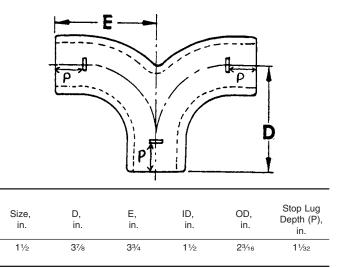


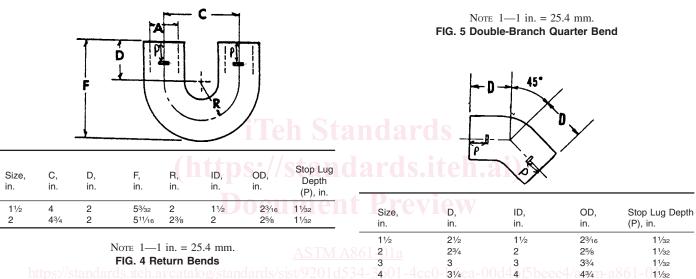
NOTE 1-1 in. = 25.4 mm. FIG. 2 Quarter Bends 🕼 A 861



Size, in.	D, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
11/2	3	11/2	2 ³ / ₁₆	11/32
2	31⁄4	2	25/8	1 ¹ /32
3	31/2	3	33⁄4	1 ¹ /32
4	33⁄4	4	43⁄4	11/32

Note 1-1 in. = 25.4 mm. FIG. 3 Sixth Bends





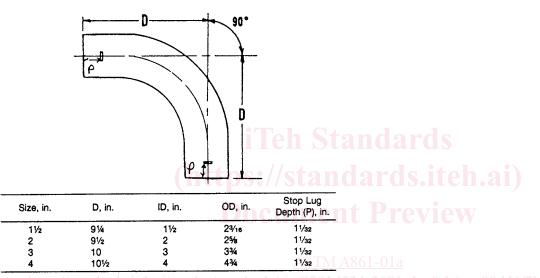
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> Note 1-1 in. = 25.4 mm. FIG. 6 Eight Bends

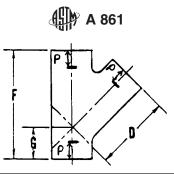


Size, in.	D, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
11/2	2	11/2	2 ³ /16	11/32
2	21/8	2	25/8	1 1/32
3	21/4	3	33⁄4	1 ¹ /32
4	23⁄8	4	43⁄4	11/32

Note 1—1 in. = 25.4 mm. FIG. 7 Sixteenth Bends

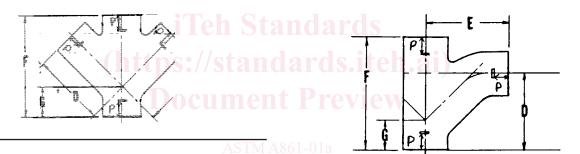


https://st FIG. 8 Long-Sweep Quarter Bends ds/sist/9201d534-3601-4cc0-b6ea-00d46f5beee4/astm-a861-01a



Size, in.	D, in.	F, in.	G, in.	ID, in	OD, in.	Stop Lug Depth (P), in.
1/2 × 11/2	45/8	61⁄2	17⁄8	1½ × 1½	$2^{3/_{16}} imes 2^{3/_{16}}$	11/32
2 × 1½	47⁄8	61/2	15⁄8	2 × 1½	25/8× 23/16	1 ¹ /32
2×2	45/8	63/8	2	2×2	25/8 × 25/8	1 ¹ /32
3 × 1½	55/8	61/2	11/4	3 × 1½	3¾× 2¾16	1 ¹ /32
3×2	51/8	71/8	11/2	3 imes 2	$3^{3/_{4}} imes 2^{5/_{8}}$	1 1/32
3×3	63/8	85/8	21/4	3 imes 3	$3^{3/_4} imes 3^{3/_4}$	1 1/32
$4 \times 1\frac{1}{2}$	65/8	71/2	13/8	$4 \times 1\frac{1}{2}$	4 ³ / ₄ × 2 ³ / ₁₆	1 ¹ /32
4×2	65/8	71/2	13/8	4 imes 2	$4^{3/_{4}} imes 2^{5/_{8}}$	1 ¹ /32
4×3	71/8	83⁄4	13⁄4	4 imes 3	$4^{3/_4} imes 3^{3/_4}$	1 ¹ /32
4×4	75/8	101/4	25/8	4×4	$4^{3/_{4}} \times 4^{3/_{4}}$	11/32

NOTE 1-1 in. = 25.4 mm. FIG. 9 Sanitary Y Branches



Size, D, F, G, ID, OD, Stop Lug Depth (P), in. in. in. in. in. in. in. Size, D, Ε, F, G, ID, OD, Stop Lug 11/2 × 11/2 45⁄8 61/2 17⁄8 11/2 × 11/2 2³/₁₆ × 2³/₁₆ **1**¹/32 in. in. in. in. in. in. in. Depth $2 \times 1\frac{1}{2}$ $2 \times 1\frac{1}{2}$ (P), in. 25/8× 23/16 47/8 61/2 15⁄8 11/32 2 imes 245⁄8 63/8 2 2 imes 2 $2^{5\!/_8}\times2^{5\!/_8}$ **1**½2 2³/₁₆× 2³/₁₆ $1^{1\!/_{\!2}}\times1^{1\!/_{\!2}}$ $^{1/_2} imes$ 1 $^{1/_2}$ **1**1/32 43/4 53/8 61/2 17⁄8 $3 imes 1^{1/_2}$ 55⁄8 61/2 **1**1⁄4 $3 imes 1^{1/_2}$ 3³/₄× 2³/₁₆ **1**1/32 $2 \times 1\frac{1}{2}$ 4¾ 5¾ 61/2 15⁄8 $2\times1^{1\!\!\prime_2}$ $2^{5/\!\!/_{8}} imes 2^{3/\!\!/_{16}}$ **1**1/32 3 imes 23¾ × 25⁄8 57⁄8 71/8 11/2 3 imes 2**1**1/32 2 imes 25 57/8 65⁄8 17/8 2 imes 225/8 × 25/8 11/32 3×3 63⁄8 $\mathbf{3} imes \mathbf{3}$ $33/_4 \times 33/_4$ 85/8 21/4 11/32 3 × 1½ $3\times1^{1\!\!\prime_2}$ $3^{3/_{4}} \times 2^{3/_{16}}$ 4 51/4 61/2 15/8 11/32 13⁄8 4 imes 265/8 71/2 4 imes 2 $4^{3/_{4}} \times 2^{5/_{8}}$ **1**1/32 3 imes 25 61/4 71⁄8 **1**½ 3 imes 2 $3^{3}\!\!\!/_{4}\times2^{5}\!\!/_{8}$ **1**1/32 4 imes 371⁄8 **8**¾ **1**¾ 4 imes 34¾ × 3¾ **1**½2 $\mathbf{3} imes \mathbf{3}$ 61/4 7 81/2 21/4 3 imes 3 $3^{3/_{4}} \times 3^{3/_{4}}$ **1**1/32 4×4 75⁄8 101/4 25/8 4×4 43⁄4 × 43⁄4 **1**1/32 $4 \times 1\frac{1}{2}$ 45⁄16 61/8 65⁄8 13⁄8 $4 \times 1\frac{1}{2}$ 4¾ × 2¾16 **1**1/32 4 imes 24 imes 273⁄8 $4^{3}/_{4} \times 2^{5}/_{8}$ 5 63/8 13/8 11/32 4 imes 3 $4^{3/_{4}} \times 3^{3/_{4}}$ 6 71/4 83/4 **1**¾ 4 imes 3 **1**1/32

4 imes 4

73⁄8

8

101/4

Note 1-1 in. = 25.4 mm. FIG. 10 Double-Branch Sanitary Y

25/8

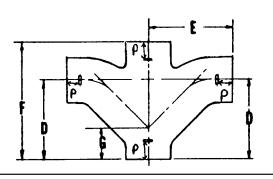
 4×4

 $4^{3/_{4}} \times 4^{3/_{4}}$

1½2

Bend





Size, in.	D, in.	E, in.	F, in.	G, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
1½ × 1½	43⁄4	5 ³ /8	61/2	71/8	1½× 1½	2 ³ / ₁₆ × 2 ³ / ₁₆	11/32
$2 \times 1^{1/_2}$	43⁄4	53⁄4	61/2	15⁄8	$2 \times 1\frac{1}{2}$	25⁄8 × 23⁄16	11/32
2×2	5	51/8	65/8	15⁄8	2×2	25⁄8 × 25⁄8	1 ¹ /32
$3 \times 1\frac{1}{2}$	41/4	51/4	61/2	15⁄8	$3 imes 1\frac{1}{2}$	3¾ × 2¾16	1 ¹ /32
3×2	5	61/4	71/8	11/2	3 imes 2	3¾ × 25⁄8	1 ¹ /32
3 imes 3	61/4	7	81/2	21/4	3 imes 3	$3^{3/_4} imes 3^{3/_4}$	1 ¹ /32
4×2	5	63/8	73⁄8	13⁄8	4×2	$4^{3/_4} imes 2^{5/_8}$	1 ¹ /32
4×3	6	71/4	83/4	13⁄4	4 imes 3	$4^{3/_4} imes 3^{3/_4}$	11/32
4 imes 4	73⁄8	8	101/4	25/8	4 imes 4	$4^{3/_{4}} \times 4^{3/_{4}}$	1 ¹ / ₃₂

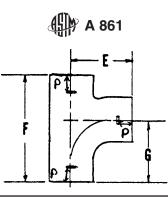
Note 1-1 in. = 25.4 mm.

FIG. 12 Double-Branch Sanitary Combination Y and 1/8 Bend

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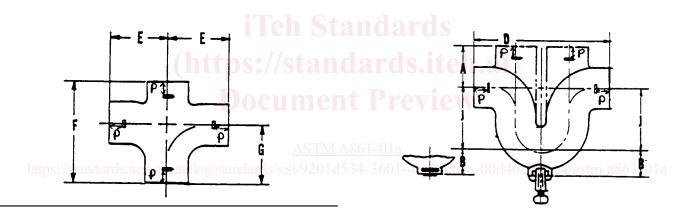
<u>ASTM A861-01a</u>

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Size, in.	E, in.	F, in.	G, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
11/2 × 11/2	41/4	63⁄4	41/4	11/2 × 11/2	23/16 × 23/16	11/32
2 × 1½	41/2	63⁄4	41/4	$2 \times 1\frac{1}{2}$	25⁄8 × 23⁄16	11/32
$2 \times 1\frac{1}{2} \times 1\frac{1}{2}$	41/2	63⁄4	41/4	$2 imes 1\frac{1}{2} imes 1\frac{1}{2}$	$25\!\!/_8 imes 23\!\!/_{16} imes 23\!\!/_{16}$	11/32
2×2	41/2	67⁄8	41/2	2×2	2 ⁵ / ₈ × 2 ⁵ / ₈	11/32
3 × 1½	5	63⁄4	41/4	$3 \times 1\frac{1}{2}$	3¾ × 2¾16	11/32
3×2	5	71/4	41/2	3 imes 2	3¾ × 2 5⁄/8	11/32
3 × 3	5	83/8	5	3× 3	$3^{3/_{4}} \times 3^{3/_{4}}$	11/32
4 × 1½	5%16	67⁄8	47/32	4× 1½	4 ³ / ₄ × 2 ³ / ₁₆	11/32
4×2	51/2	71/4	41/2	4×2	43⁄4 × 25⁄8	11/32
4 imes 3	51/2	81/4	5	4 imes 3	$4^{3/_{4}} imes 3^{3/_{4}}$	11/32
4×4	51/2	9 ³ / ₈	51/2	4 imes 4	$4^{3/_{4}} \times 4^{3/_{4}}$	11/32

Note 1-1 in. = 25.4 mm. FIG. 13 Sanitary T Branches



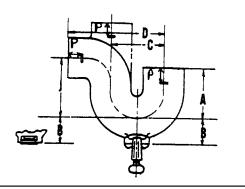
Size, in.	E, in.	F, in.	G, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
1½ × 1½	41⁄4	63⁄4	41/4	1½ × 1½	2 ³ / ₁₆ × 2 ³ / ₁₆	11/32
$2 \times 1\frac{1}{2}$	41/2	63⁄4	41/4	$2 \times 1\frac{1}{2}$	$2^{5/\!\!/_8} imes 2^{3/\!\!/_{16}}$	11/32
2×2	41/2	67/8	41/2	2×2	25/8×25/8	11/32
$3 \times 1\frac{1}{2}$	5	63⁄4	41/4	3 ×1½	$3^{3}_{4} imes 2^{3}_{16}$	1 1/32
3×2	5	71/4	41/2	3 imes 2	$3^{3}_{4} imes 2^{5}_{8}$	1 1/32
3 imes 3	5	83/8	5	3 imes 3	$3^{3}\!\!\!/_{4} imes 3^{3}\!\!/_{4}$	11/32
4×2	51/2	71/4	41/2	4 imes 2	43/8× 25/8	11/32
4 imes 3	51/2	81/4	5	4 imes 3	$4^{3/_4} imes 3^{3/_4}$	11/32
4 imes 4	51/2	9 3⁄8	51/2	4×4	43⁄8× 43⁄8	11/32

Size, in.	A, in.	B, in.	C, in.	D, in.	J, in.	R, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
11/2	23⁄4	15⁄8	5	10	4	1 ¾	11/2	2 ³ ⁄16	11/32
2	31/2	1 ¹⁵ /16	51/2	11	4	2	2	25⁄8	11/32
3	4	25/16	61/2	13	51/2	21/2	3	33⁄4	11/32
4	41⁄2	3	71⁄2	15	61⁄2	3	4	43⁄4	1 1/32

Note 1-1 in. = 25.4 mm. FIG. 15 Sanitary Running Traps

Note 1-1 in. = 25.4 mm. FIG. 14 Double-Branch Sanitary T

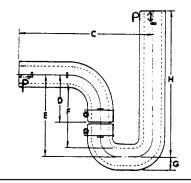
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Size, in.	A, in.	B, in.	C, in.	D, in.	J, in.	R, in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
11/2	33⁄4	15⁄8	31/2	63⁄4	4	13⁄4	1 ½	2 ³ /16	1 1/32
2	4	1 ¹⁵ /16	4	71/2	4	2	2	25/8	1 1/32
3	41/2	25/16	5	9	51/2	21/2	3	33⁄4	1 1/32
4	5	3	6	10½	61⁄2	3	4	43⁄4	1 1/32

Note 1—1 in. = 25.4 mm.

FIG. 16 Sanitary P Traps



Size, in.	C ^A , in.	D, in.	E, in.	F, in.	G, in.	H ^A , in.	ID, in.	OD, in.	Stop Lug Depth (P), in.
1 ½	12¾	4	615/16	51/16	13/32	12 ½	11/2	2 ³ ⁄16	11/32

^AFor shorter C or H dimension, snap-cut to desired length.

Note 1-1 in. = 25.4 mm. FIG. 18 Swivel Trap P-Style Long

