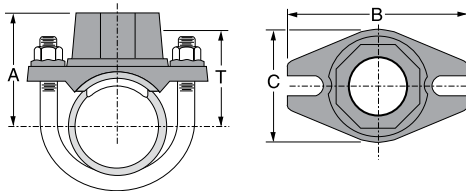


FIG. 7043

Branch Outlet



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil® Sales Representative.



MATERIAL SPECIFICATIONS

GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

- Grade "E" EPDM (Green color code)
 - 40°F to 150°F (Service Temperature Range)
 - (-40°C to 66°C) Recommended for water service, diluted acids, alkalis solutions, oil-free air and many chemical services.
 - NOT FOR USE IN PETROLEUM APPLICATIONS.

HOUSING:

Ductile Iron conforming to ASTM A 536, Grade 65-45-12.

COATINGS:

- Rust inhibiting paint – Color: ORANGE (standard)
- Hot Dipped Zinc Galvanized (optional)

U-BOLT:

Plated U-bolt conforming to ASTM A 307 with plated hex nuts conforming to ASTM A 563.

LUBRICATION:

- Standard Gruvlok
- Gruvlok Xtreme™

The Gruvlok Figure 7043 Branch Outlet is for direct connection of sprinkler heads and drop nipples. Just cut a hole, saddle up and fasten it with the U-bolt. The branch outlet provides an economical, quick, and easy outlet at any location along a pipe. Specially engineered to conform to the pipe O.D., the Fig. 7043 provides a leak tight reliable seal in both positive pressure and vacuum conditions. Ductile iron housings with Grade E gasket and carbon steel U-bolt ($\frac{3}{8}$ " dia.) with flanged nuts. Ductile iron housing is available painted or galvanized.

The maximum working pressure for all sizes is 175 PSI (12.1 bar).

FIGURE 7043 BRANCH OUTLET

Nominal Size	O.D.	Hole Diameter		Dimensions				Specified Torque §		Approx. Wt. Each
		Min. Dia.	Max. Dia.	A	B	C	Take-out T	Min.	Max.	
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Ft.-Lbs./N-m		Lbs./Kg
1¼ x ½	1.660 x 0.840	1⅜	1¼	2¼	3½	2⅞	1⅜	27	33	0.8
32 x 15	42.4 x 21.3	30	32	53	89	56	35	-	-	0.4
1¼ x ¾	1.660 x 1.050	1⅜	1¼	2¼	3½	2⅞	1⅜	27	33	0.8
32 x 20	42.4 x 26.7	30	32	53	89	56	35	-	-	0.4
1¼ x 1	1.660 x 1.315	1⅜	1¼	2⅜	3½	2⅞	1½	27	33	0.9
32 x 25	42.4 x 33.7	30	32	56	89	56	38	-	-	0.4
1½ x ½	1.900 x 0.840	1⅜	1¼	2⅝	3½	2⅞	1⅜	27	33	0.8
40 x 15	48.3 x 21.3	30	32	55	89	56	35	-	-	0.4
1½ x ¾	1.900 x 1.050	1⅜	1¼	2⅝	3½	2⅞	1⅜	27	33	0.8
40 x 20	48.3 x 26.7	30	32	55	89	56	35	-	-	0.4
1½ x 1	1.900 x 1.315	1⅜	1¼	2⅞	3½	2⅞	1½	27	33	0.9
40 x 25	48.3 x 33.7	30	32	58	89	56	38	-	-	0.4
2 x ½	2.375 x 0.840	1⅜	1¼	2½	3⅞	2⅞	1⅝	27	33	0.8
50 x 15	60.3 x 21.3	30	32	64	98	56	42	-	-	0.4
2 x ¾	2.375 x 1.050	1⅜	1¼	2½	3⅞	2⅞	1⅝	27	33	0.8
50 x 20	60.3 x 26.7	30	32	64	98	56	42	-	-	0.4
2 x 1	2.375 x 1.315	1⅜	1¼	2⅝	3⅞	2⅞	1¾	27	33	0.9
50 x 25	60.3 x 33.7	30	32	67	98	56	45	-	-	0.4
2½ x ½	2.875 x 0.840	1⅜	1¼	2⅞	4⅞	2⅞	2	27	33	0.8
65 x 15	73.0 x 21.3	30	32	69	111	56	51	-	-	0.4
2½ x ¾	2.875 x 1.050	1⅜	1¼	2⅞	4⅞	2⅞	2	27	33	0.9
65 x 20	73.0 x 26.7	30	32	69	111	56	51	-	-	0.4
2½ x 1	2.875 x 1.315	1⅜	1¼	2⅞	4⅞	2⅞	2⅞	27	33	1.0
65 x 25	73.0 x 33.7	30	32	72	111	56	54	-	-	0.5

§ – For additional Bolt Torque information, see page 204. See Installation & Assembly directions on page 181. Not for use with copper systems.

PROJECT INFORMATION

APPROVAL STAMP

Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

FIG. 7043

Branch Outlet

ALWAYS USE A GRUVLOK LUBRICANT FOR PROPER BRANCH OUTLET ASSEMBLY. Thorough lubrication of the gasket is essential to assist the gasket into the proper sealing position.

SPECIFIED BOLT TORQUE

The nuts must be tightened alternately and evenly until fully tightened. **CAUTION:** Use of an impact wrench is not recommended because the torque output can vary significantly due to many variables including air pressure, battery strength and operational variations.

CAUTION: Proper torquing of the U-bolts is required to obtain the specified performance. Over-torquing the U-bolts may result in damage to the U-bolt and/or casting which could result in lower pressure retention capabilities, lower bend load capabilities, pipe joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.



1 PIPE PREPARATION AND GASKET LUBRICATION— Cut a 1 $\frac{1}{16}$ " hole in the pipe and remove any burrs. Be sure to remove the slug from inside the pipe. Clean the gasket sealing surface within $\frac{5}{8}$ " of the hole and visually inspect the sealing surface for defects that may prevent proper sealing of the gasket. Remove the gasket from the housing and apply a thin layer of Gruvlok[®] lubricant to the back surface of the gasket. Be careful that foreign particles do not adhere to the lubricated surfaces. Insert the gasket back into the outlet housing making sure the tabs in the gasket line up with the tab recesses in the housing.



2 GASKET INSTALLATION— Lubricate the exposed surface of the gasket with Gruvlok[®] lubricant.



3 ALIGNMENT— Align the outlet housing over the pipe hole making sure that the locating collar is in the pipe hole.



4 HOUSING ASSEMBLY— Attach the U-bolt from the other side and fasten the nuts finger tight.



5 TIGHTEN NUTS— Making sure the fitting is properly located over the pipe hole, tighten the nuts alternately and evenly to the specified torque of 27 to 33 Lbs.-Ft. (37 to 45 N-m).



6 ASSEMBLY IS COMPLETE— Visually inspect the assembly, the gasket will extrude out from under the housing.