

FIG. 7046 Clamp-T®, Grooved Branch



The Gruvlok® Clamp-T provides a quick and easy outlet at any location along the pipe. A hole drilled or cut in the pipe to receive the locating collar of the Clamp-T is all that is required. The full, smooth outlet area provides for optimum flow characteristics.

The Clamp-T housing is specially engineered to conform to the pipe O.D. and the Clamp-T gasket providing a leak tight reliable seal in both positive pressure and vacuum conditions. The maximum working pressure for all sizes is 500 PSI (34.5 bar) when assembled on standard wall steel pipe. For the latest UL/ULC listed, LPCB, VdS and FM Approved pressure ratings versus pipe schedule, see www.anvilintl.com or contact your local Anvil Representative.

The Gruvlok Clamp-T provides for a branch or cross connection in light wall or standard wall steel pipe.

Clamp-T cross connections are available in most sizes allowing greater versatility in piping design.

CLAMP-T FLOW DATA (FRICTIONAL RESISTANCE)

Branch Size	Fig. 7046 Grooved Branch	
	C.V. Value	Equiv. Pipe Length
In./DN(mm)		Ft./m
1 1/4 32	5.4 -	5.0 1.5
1 1/2 40	95 -	3.5 1.1
2 50	148 -	4.5 1.4
2 1/2 65	205 -	7.0 2.1
3 80	294 -	9.5 2.9
4 100	571 -	7.0 2.1



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

- Available galvanized.

MATERIAL SPECIFICATIONS

HOUSING:

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

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or J995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

U-BOLT:

Cold drawn steel and zinc plated.

COATINGS:

- Rust inhibiting paint Color: ORANGE (standard)
 - Hot Dipped Zinc Galvanized (optional)
 - Other available options: Example: RAL3000 or RAL9000 Series
- For other coating requirements contact an Anvil Representative.

LUBRICATION:

- Standard Gruvlok
- Gruvlok Xtreme™ required for dry pipe systems and freezer applications.

GASKETS: Materials

Properties as designated in accordance with ASTM D-2000.

- Grade "E" EPDM (Green color code)
 - 40°F to 230°F (Service Temperature Range)[-40°C to 110°C]
 - Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services.
 - NOT FOR USE IN PETROLEUM APPLICATIONS.
- Grade "EP" EPDM (Green and Red color code)
 - 40°F to 250°F (Service Temperature Range)[-40°C to 121°C]
 - Recommended for water service, diluted acids, alkalies solutions, oil-free air and many other chemical services.
 - NOT FOR USE IN PETROLEUM APPLICATIONS.

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. 7046 Clamp-T®, Grooved Branch

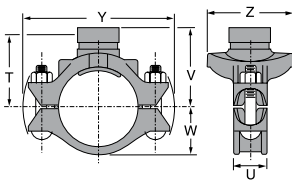


Fig. 7046

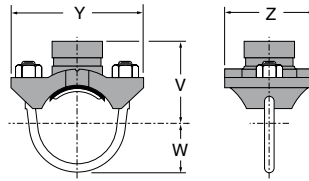


Fig. 7046 (U-Bolt)



For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok® Xtreme™ Lubricant is required.

FIGURE 7046-GR BRANCH

Nominal Size	O.D.	Hole Dimensions		Max. Working Pressure▲	Clamp-T Dimensions					Bolt* Size	Specified Torque §		Approx. Wt. Ea.
		Min. Diameter	Max. Diameter		U	V Grooved	W	Y	Z		Min.	Max.	
In./DN(mm)	In./mm	In./mm	In./mm	PSI/bar	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Ft.-Lbs./N-m	Lbs./Kg	
2½ x 1¼	2.875 x 1.660	2	2⅛	500	⅞	3⅞	1¾	6⅞	3½	½ U-Bolt	30	40	3.4
65 x 32	73.0 x 42.4	51	54	34.5	14	79	44	156	89	-	-	-	1.5
2½ x 1½	2.875 x 1.900	2	2⅛	500	⅞	3⅞	1¾	6⅞	3½	½ U-Bolt	30	40	3.4
65 x 40	73.0 x 48.3	51	54	34.5	14	79	44	156	89	-	-	-	1.5
3 x 1¼	3.500 x 1.660	2	2⅛	500	1½	3½	2⅞	6⅞	3¾	½ x 2¾	80	100	3.4
80 x 32	88.9 x 42.4	51	54	34.5	38	89	54	175	95	-	-	-	1.5
3 x 1½	3.500 x 1.900	2	2⅛	500	1½	3½	2⅞	6⅞	3¾	½ x 2¾	80	100	4.4
80 x 40	88.9 x 48.3	51	54	34.5	38	89	54	175	95	-	-	-	2.0
3 x 2	3.500 x 2.375	2½	2⅝	500	1½	3½	2⅞	6⅞	4⅞	½ x 2¾	80	100	4.6
80 x 50	88.9 x 60.3	64	67	34.5	38	89	54	175	105	-	-	-	2.1
4 x 1¼	4.500 x 1.660	2	2⅛	500	1⅞	4	2⅞	7½	3¾	½ x 2¾	80	100	4.2
100 x 32	114.3 x 42.4	51	54	34.5	48	102	67	191	95	-	-	-	1.9
4 x 1½	4.500 x 1.900	2	2⅛	500	1⅞	4	2⅞	7½	3¾	½ x 2¾	80	100	4.3
100 x 40	114.3 x 48.3	51	54	34.5	48	102	67	191	95	-	-	-	2.0
4 x 2	4.500 x 2.375	2½	2⅝	500	1⅞	4	2⅞	7½	4⅞	½ x 2¾	80	100	4.6
100 x 50	114.3 x 60.3	64	67	34.5	48	102	67	191	105	-	-	-	2.1
4 x 2½	4.500 x 2.875	2¾	2⅞	500	1⅞	4	2⅞	7½	4⅞	½ x 2¾	80	100	5.0
100 x 65	114.3 x 73.0	70	73	34.5	48	102	67	191	111	-	-	-	2.3
4 x 3 O.D.	4.500 x 2.996	2¾	2⅞	500	1⅞	4	2⅞	7½	4⅞	½ x 2¾	80	100	5.0
100 x 80	114.3 x 76.1	70	73	34.5	48	102	67	191	111	-	-	-	2.3
4 x 3	4.500 x 3.500	3½	3⅝	500	1⅞	4	2⅞	7½	5¼	½ x 3½	80	100	5.6
100 x 80	114.3 x 88.9	89	92	34.5	48	102	67	191	133	-	-	-	2.5
5 x 1¼	5.563 x 1.660	2	2⅛	500	1⅞	4¼	3¼	9⅞	3¾	½ x 2¾	80	100	5.6
125 x 32	141.3 x 42.4	51	54	34.5	48	108	83	232	95	-	-	-	2.5
5 x 1½	5.563 x 1.900	2	2⅛	500	1⅞	4¼	3¼	9⅞	3¾	⅝ x 3¼	100	130	5.6
125 x 40	141.3 x 48.3	51	54	34.5	48	108	83	232	95	-	-	-	2.5
5 x 2	5.563 x 2.375	2½	2⅝	500	1⅞	4¼	3¼	9⅞	4⅞	⅝ x 3¼	100	130	5.5
125 x 50	141.3 x 60.3	64	67	34.5	48	108	83	232	105	-	-	-	2.5
5 x 2½	5.563 x 2.875	2¾	2⅞	500	1⅞	4¼	3¼	9⅞	4⅞	⅝ x 3¼	100	130	5.8
125 x 65	141.3 x 73.0	70	73	34.5	48	108	83	232	111	-	-	-	2.6
5 x 3	5.563 x 3.500	3½	3⅝	500	1⅞	4⅞	3¼	9⅞	5¼	⅝ x 3¼	100	130	7.1
125 x 80	141.3 x 88.9	89	92	34.5	48	117	83	232	133	-	-	-	3.2
6 x 1½	6.625 x 1.900	2	2⅛	500	2	5	3⅞	10⅞	3¾	⅝ x 4¼	100	130	7.2
150 x 40	168.3 x 48.3	51	54	34.5	51	127	98	257	95	*	-	-	3.3
6 x 2	6.625 x 2.375	2½	2⅝	500	2	5	3⅞	10⅞	4⅞	⅝ x 4¼	100	130	7.8
150 x 50	168.3 x 60.3	64	67	34.5	51	127	98	257	105	*	-	-	3.5
6 x 2½	6.625 x 2.875	2¾	2⅞	500	2	5⅞	3⅞	10⅞	4⅞	⅝ x 4¼	100	130	7.6
150 x 65	168.3 x 73.0	70	73	34.5	51	130	98	257	111	*	-	-	3.4
6 x 3 O.D.	6.625 x 2.996	2¾	2⅞	500	2	5⅞	3⅞	10⅞	4⅞	⅝ x 4¼	100	130	7.6
150 x 80	168.3 x 76.1	70	73	34.5	51	130	98	257	111	*	-	-	3.4
6 x 3	6.625 x 3.500	3½	3⅝	500	2	5⅞	3⅞	10⅞	5¼	⅝ x 4¼	100	130	8.0
150 x 80	168.3 x 88.9	89	92	34.5	51	130	98	257	133	*	-	-	3.6
6 x 4	6.625 x 4.500	4½	4⅝	500	2	5¼	3⅞	10⅞	6⅞	⅝ x 4¼	100	130	10.4
150 x 100	168.3 x 114.3	114	117	34.5	51	133	98	257	165	*	-	-	4.7
8 x 2	8.625 x 2.375	2½	2⅝	500	2¼	6⅞	5	12¾	4¼	¾ x 4½	130	180	10.4
200 x 50	219.1 x 60.3	64	67	34.5	57	156	127	324	108	-	-	-	4.7
8 x 2½	8.625 x 2.875	2¾	2⅞	500	2¼	6⅞	5	12¾	4⅞	¾ x 4½	130	180	10.6
200 x 65	219.1 x 73.0	70	73	34.5	57	156	127	324	111	M20 x 110	175	245	4.8
8 x 3	8.625 x 3.500	3½	3⅝	500	2¼	6⅞	5	12¾	5¼	¾ x 4½	130	180	11.5
200 x 80	219.1 x 88.9	89	92	34.5	57	156	127	324	133	M20 x 110	175	245	5.2
8 x 4	8.625 x 4.500	4½	4⅝	500	2¼	6¼	5	12¾	6⅞	¾ x 4½	130	180	16.2
200 x 100	219.1 x 114.3	114	117	34.5	57	159	127	324	165	M20 x 110	175	245	7.3

NOTE: 2½", 5" and 6" Nominal size run pipe may be used on 3" O.D., 5½" O.D. and 6½" O.D. pipe.
 * All bolts and nuts are of track head design and are zinc plated conforming to ASTM B-633.
 ▲ - Working Pressure Ratings are for reference only and based on Sch. 40 pipe. For the latest UL/ULC, FM, VdS and LPCB pressure ratings versus pipe schedule, please visit anvilintl.com or contact your local Anvil Representative.

Not for use in copper systems.
 § - For additional Bolt Torque information, see Technical Data Section.
 • Can not be used in cross configuration.