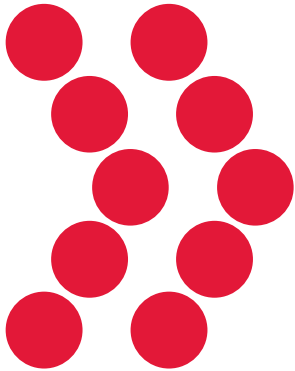




Steel Fire Sprinkler Pipe





Wheatland Tube

Fire Sprinkler Products

Wheatland Tube began producing steel fire sprinkler pipe in 1931, and today offers the most complete line of products in the industry. Engineers and contractors across the continent depend on us for steel fire sprinkler pipe and a number of proprietary products — always in stock and ready to deliver.

100% Compatibility

We guarantee our steel pipe is 100% compatible with fire protection systems that use only steel pipe. Why risk incompatibility? Wheatland's complete line of steel sprinkler pipe makes design easy and brings you peace of mind.*

Accurate and Efficient

Our products help you work safer and smarter — not harder. With our extensive in-house capabilities, we offer the shortest production cycle times in the industry, and we deliver to you accurately and on time, every time.

*Wheatland Tube has never warranted compatibility between its steel pipe products and CPVC products.

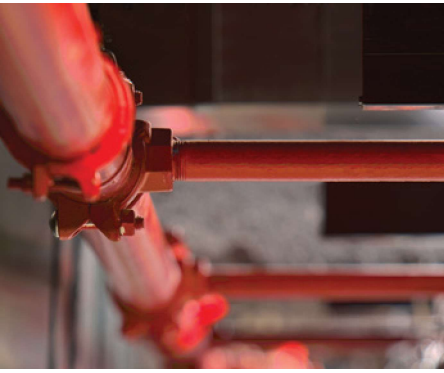
Green and Sustainable

Our steel fire sprinkler pipe contains recycled steel and provides decades of reliable service. At the end of its life, the steel may be almost fully recycled, supporting your green policies.

Zekelman Industries

Wheatland Tube is a division of Zekelman Industries, the largest independent manufacturer of steel hollow structural sections (HSS) and steel pipe in North America. We leverage our 100-plus years of pipe and tube manufacturing experience and expertise to produce 2 million tons of pipe and tube annually. Backed by Zekelman Industries, you can count on Wheatland for **strength, innovation and service** — bringing exceptional value to your business.

Schedule 10 and Schedule 40



High quality, high performance

Wheatland's Schedule 10 and Schedule 40 steel fire sprinkler pipe are subjected to the toughest possible testing to ensure the highest possible quality — not to mention reliable, long-lasting performance.

- Proprietary mill coating ensures clean, corrosion-resistant surface
- Outperforms and outlasts standard lacquer-coated pipe
- Easily painted, without special preparation
- Available in hot-dip galvanized or black finish

SCHEDULE 10 WEIGHTS AND DIMENSIONS

1 NPS NOW FM APPROVED

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL
	in.	mm	in.	mm	in.	mm	lbs.	lbs.		lbs.	lbs.	lbs.	CRR*
1	1.315	33.4	1.097	27.9	0.109	2.77	1.405	1.814	70	2065	2360	2459	11.4
1¼	1.660	42.2	1.442	36.6	0.109	2.77	1.807	2.514	61	2315	2645	2756	7.3
1½	1.900	48.3	1.682	42.7	0.109	2.77	2.087	3.049	61	2673	3055	3183	5.8
2	2.375	60.3	2.157	54.8	0.109	2.77	2.640	4.222	37	2051	2344	2442	4.7
2½	2.875	73.0	2.635	66.9	0.120	3.05	3.354	5.895	30	2226	2544	2651	3.5
3	3.500	88.9	3.260	82.8	0.120	3.05	4.336	7.949	19	1730	1977	2060	2.6
4	4.500	114.3	4.260	108.2	0.120	3.05	5.619	11.789	19	2242	2562	2669	1.6
5	5.563	141.3	5.295	134.5	0.134	3.40	7.780	17.309	13	2124	2427	2529	1.5
6	6.625	168.3	6.357	161.5	0.134	3.40	9.298	23.038	10	1953	2232	2325	1.0
8	8.625	219.1	8.249	209.5	0.188	4.78	16.960	40.086	7	2493	2849	2968	2.1

SCHEDULE 40 WEIGHTS AND DIMENSIONS

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL
	in.	mm	in.	mm	in.	mm	lbs.	lbs.		lbs.	lbs.	lbs.	CRR*
1	1.315	33.4	1.049	26.6	0.133	3.38	1.68	2.055	70	2470	2822	2940	1.000
1¼	1.660	42.2	1.380	35.1	0.140	3.56	2.27	2.922	51	2431	2778	2894	1.000
1½	1.900	48.3	1.610	40.9	0.145	3.68	2.72	3.602	44	2513	2872	2992	1.000
2	2.375	60.3	2.067	52.5	0.154	3.91	3.66	5.109	24	1845	2108	2196	1.000
2½	2.875	73.0	2.469	62.7	0.203	5.16	5.80	7.871	20	2436	2784	2900	1.000
3	3.500	88.9	3.068	77.9	0.216	5.49	7.58	10.783	13	2069	2365	2464	1.000
3½	4.000	101.6	3.548	90.1	0.226	5.74	9.12	13.400	10	1915	2189	2280	1.000
4	4.500	114.3	4.026	102.3	0.237	6.02	10.80	16.311	10	2268	2592	2700	1.000
5	5.563	141.3	5.047	128.2	0.258	6.55	14.63	23.262	7	2151	2458	2560	1.000
6	6.625	168.3	6.065	154.1	0.280	7.11	18.99	31.498	5	1994	2279	2374	1.000
8**	8.625	219.1	7.981	202.7	0.322	8.18	28.58	50.240	5	3001	3430	3573	1.000

* Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY. The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).

** 8 NPS Schedule 40 is FM Approved but not UL Listed.

Schedule 10 and Schedule 40 Meet or Exceed These Standards:

- ASTM A135, Type E, Grade A (Schedule 10, 1-8 NPS)
- ASTM A53, Type E, Grade B (Schedule 40, 2-8 NPS)
- UL and C-UL Listed
- FM Approved
- NFPA 13
- ASTM A795, Type E, Grade A (Schedule 40, 1-2 NPS)
- ASTM A53, Type F, Grade A (Schedule 40, 1-4 NPS)

Mega-Flow



Greater hydraulics, greater value

Wheatland's Mega-Flow is an engineered, light-wall steel sprinkler pipe that offers ID up to 7% larger than Schedule 10 and 11% larger than Schedule 40 for improved hydraulics. With its proprietary mill coating, Mega-Flow is an excellent alternative to standard wall products so you can downsize your entire sprinkler system with the same or greater quality.

- ID up to 7% larger than Schedule 10 and 11% larger than Schedule 40
- Saves freight, labor and installation costs
- Standard hanger spacing (15')
- Available in standard lengths; custom lengths can be ordered
- Roll groove available from mill inventory
- Proprietary mill coating provides superior primer for printing

MEGA-FLOW WEIGHTS AND DIMENSIONS

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL CRR*
	in.	mm	in.	mm	in.	mm							
1¼	1.660	42.2	1.528	38.8	0.066	1.7	1.108	1.904	61	1419	1622	1690	1.80
1½	1.900	48.3	1.740	44.2	0.080	2.0	1.556	2.586	61	1993	2278	2373	2.64
2	2.375	60.3	2.215	56.3	0.080	2.0	1.961	3.631	37	1524	1741	1814	2.14
2½	2.875	73.0	2.707	68.8	0.084	2.1	2.504	4.998	30	1578	1803	1878	1.43
3	3.500	88.9	3.316	84.2	0.092	2.3	3.349	7.090	19	1336	1527	1591	1.34
4	4.500	114.3	4.308	109.4	0.096	2.4	4.331	10.669	19	1728	1975	2057	1.00
6	6.625	168.3	6.395	162.4	0.115	2.9	8.000	21.900	10	1680	1920	2000	0.75

MEGA-FLOW COMPARISON

NPS	NOMINAL OD	NOMINAL ID			UL	
		in.			CRR*	
		Mega-Flow	Schedule 10	Schedule 40	Mega-Flow	Schedule 40
1¼	1.660	1.528	1.442	1.380	1.80	1.00
1½	1.900	1.740	1.682	1.610	2.64	1.00
2	2.375	2.215	2.157	2.067	2.14	1.00
2½	2.875	2.707	2.635	2.469	1.43	1.00
3	3.500	3.316	3.260	3.068	1.34	1.00
4	4.500	4.308	4.260	4.026	1.00	1.00
6	6.625	6.395	6.357	6.065	0.75	1.00

* Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY. The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).

Mega-Flow Meets or Exceeds These Standards:

- ASTM A795, Type E, Grade A
- UL and C-UL Listed and FM Approved for use with roll grooved, swage grooved, plain-end couplings and welded joints for wet, dry preaction and deluge systems
- FM Approved for roll grooved, plain-end and welded joints for wet systems
- NFPA 13 and NFPA 14

Mega-Thread



Greater hydraulics, greater value

Wheatland's Mega-Thread is an engineered, light-wall steel sprinkler pipe that offers ID 3.6% larger than Schedule 40 for superior flow. It saves costs in threadable applications and can be joined by screwed, grooved or plain-end fittings, or welded. With its proprietary mill coating, Mega-Thread is an excellent Schedule 40 alternative that threads smoothly and easily so you can downsize your entire sprinkler system with the same or greater quality.

- ID 3.6% larger than Schedule 40
- Saves costs in threadable applications
- Superior flow characteristics
- Can be joined by screwed, grooved or plain-end fittings, or welded
- Threads smoothly and easily; requires no thread warning
- Proprietary mill coating extends shelf life, makes painting quicker and easier
- Approved for standard hanger spacing

MEGA-THREAD WEIGHTS AND DIMENSIONS

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL
	in.	mm	in.	mm	in.	mm	lbs.	lbs.		lbs.	lbs.	lbs.	CRR*
1	1.315	33.4	1.079	27.4	0.118	3.00	1,462	1,865	70	2149	2456	2559	1.00
1¼	1.660	42.2	1.410	35.8	0.125	3.18	1,989	2,674	51	2130	2435	2536	1.00
1½	1.900	48.3	1.642	41.7	0.129	3.28	2,370	3,297	44	2190	2503	2607	1.00
2	2.375	60.3	2.109	53.6	0.133	3.38	3,094	4,621	30	1949	2228	2321	1.00

MEGA-THREAD COMPARISON

NPS	NOMINAL OD	NOMINAL ID		UL		
	in.	in.		CRR*		
		Mega-Thread	Schedule 40	Mega-Flow	Schedule 40	L.W.T. Pipe
1	1.315	1.079	1.049	1.00	1.00	0.61
1¼	1.660	1.410	1.380	1.00	1.00	0.39
1½	1.900	1.642	1.610	1.00	1.00	0.31
2	2.375	2.109	2.067	1.00	1.00	0.25

* Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY. The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).

Mega-Thread Meets or Exceeds These Standards:

- ASTM A795, Type E, Grade A
- UL and C-UL Listed and FM Approved for wet, dry and preaction sprinkler systems
- Hot-dip galvanized finish meets FM requirements for dry systems
- NFPA 13 and NFPA 14
- Rated 300 psi working pressure

GL Galvanized, Light Wall, Threadable



Ideal for exposed, open areas

Wheatland's GL steel fire sprinkler pipe is an OD galvanized, lighter-wall, threadable product. The nominal OD provides improved hydraulics — resulting in an exceptional value.

- Ideal for branch line use in wet, dry, preaction or deluge systems
- Comparable mechanical strength to Schedule 40
- Readily paintable galvanized exterior
- Available in standard lengths; custom lengths can be ordered

GL GALVANIZED WEIGHTS AND DIMENSIONS

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL
	in.	mm	in.	mm	in.	mm	lbs.	lbs.		lbs.	lbs.	lbs.	CRR*
1	1.315	33.4	1.097	27.9	0.109	2.77	1.370	1.701	91	2618	2992	3117	0.61
1¼	1.660	42.2	1.442	36.6	0.109	2.77	1.761	2.365	61	2256	2578	2686	0.39
1½	1.900	48.3	1.682	42.7	0.109	2.77	2.066	2.875	61	2604	2976	3100	0.31
2	2.375	60.3	2.157	54.8	0.109	2.77	2.686	4.142	37	2087	2385	2485	0.25

GL GALVANIZED COMPARISON

NPS	NOMINAL ID		UL		
	in.		CRR*		
	GL	Schedule 40	GL	Schedule 40	Mega-Thread
1	1.097	1.049	0.61	1.00	1.00
1¼	1.442	1.380	0.39	1.00	1.00
1½	1.682	1.610	0.31	1.00	1.00
2	2.157	2.067	0.25	1.00	1.00

* Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY. The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).

GL Meets or Exceeds These Standards:

- ASTM A795, Type E, Grade A for fire sprinkler applications up to 300 psi working pressure
- UL and C-UL Listed and FM Approved for wet, dry, preaction and deluge sprinkler systems
- Threaded and welded fittings are approved in accordance with NFPA 13

MLT Black, Light Wall, Threadable

A smooth, customized look

Wheatland's MLT is a black-coated, light-wall engineered product, with a nominal OD and reduced wall thickness that provide improved hydraulics.

- Ideal for previously installed systems and expansions
- Saves freight and installation costs
- As mechanically strong as Schedule 40 pipe
- Easily paintable for a customized look
- Can be used in wet, dry, preaction and deluge systems
- Can be joined with threaded couplings, roll grooved or plain-end couplings, or welded

MLT BLACK WEIGHTS AND DIMENSIONS

NPS	NOMINAL OD		NOMINAL ID		NOMINAL WALL		WT./FT.	WT./FT. H ₂ O FILLED	PCS./LIFT	WT./LIFT 21'	WT./LIFT 24'	WT./LIFT 25'	UL CRR*
	in.	mm	in.	mm	in.	mm							
1	1.315	33.4	1.097	27.9	0.109	2.77	1.370	1.701	91	2618	2992	3117	0.61
1¼	1.660	42.2	1.442	36.6	0.109	2.77	1.761	2.365	61	2256	2578	2686	0.39
1½	1.900	48.3	1.682	42.7	0.109	2.77	2.080	2.875	61	2604	2976	3100	0.31
2	2.375	60.3	2.157	54.8	0.109	2.77	2.630	4.142	37	2087	2385	2485	0.25

MLT BLACK COMPARISON

NPS	NOMINAL ID		UL		
	in.		CRR*		
	MLT	Schedule 40	MLT	Schedule 40	Mega-Thread
1	1.097	1.049	0.61	1.00	1.00
1¼	1.442	1.380	0.39	1.00	1.00
1½	1.682	1.610	0.31	1.00	1.00
2	2.157	2.067	0.25	1.00	1.00

* Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY. The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).

MLT Meets or Exceeds These Standards:

- ASTM A795, Type E, Grade A for fire sprinkler applications up to 300 psi working pressure
- UL and C-UL Listed and FM Approved for wet, dry, preaction and deluge sprinkler systems
- Threaded and welded fittings are approved in accordance with NFPA 13



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About Wheatland Tube

Wheatland Tube, a division of Zekelman Industries, produces a wide range of steel tubular products, including standard steel pipe, galvanized mechanical tubing, fence framework, fire sprinkler pipe, electrical conduit, elbows, couplings and nipples.

For more information, contact Wheatland Tube at:

800.257.8182 or **info@wheatland.com**

Or, visit our website at wheatland.com

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90° ELBOW



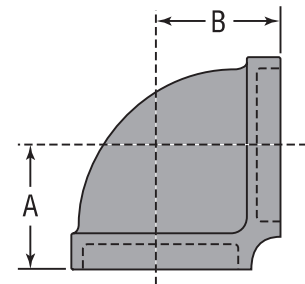
Cast Iron - Class 125 Fittings

Submittal Sheet



90° ELBOW

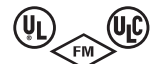
Nominal Size	Anvil Item Number	Universal Number	Max. Working Pressure	Dimensions		Approx. Wt. Each
				A	B	
In. (mm)			PSI (kPa)	In. (mm)	In. (mm)	Lbs. (kg)
1	800000002	CB90033	300	1.50	1.50	0.84
25			2065	38.10	38.10	0.38
1¼	800000010	CB90044	300	1.75	1.75	1.34
32			2065	44.45	44.45	0.61
1½	800000028	CB90055	300	1.94	1.94	1.80
40			2065	49.27	49.27	0.82
2	800000036	CB90066	300	2.25	2.25	2.90
50			2065	57.15	57.15	1.32
2½	800000044	CB90077	300	2.70	2.70	4.75
65			2065	68.58	68.58	2.15



MATERIAL SPECIFICATIONS

Cast iron threaded fittings are UL & ULC Listed & Factory Mutual Approved for 300 psi service.
Gray iron per ASTM A126 Class B.

Dimensions conform to ANSI B16.4 Class 125.
Threads are NPT per ANSI/ASME B1.20.1.



APPROVED
For Listing / Approval
details contact your
AnvilStar™ Representative.

PROJECT INFORMATION:

APPROVAL STAMP:

Project:

Date:

Phone:

Architect / Engineer:

Contractor:

Address:

Notes 1:

Notes 2:

45° ELBOW



Cast Iron - Class 125 Fittings

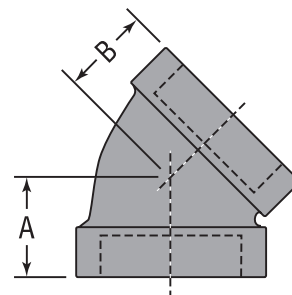
Submittal Sheet



45° ELBOW

Nominal Size	Anvil Item Number	Universal Number	Max. Working Pressure	Dimensions		Approx. Wt. Each
				A	B	
In. (mm)			PSI (kPa)	In. (mm)	In. (mm)	Lbs. (kg)
1 25	800002172	CB45033	300 2065	1.12 28.448	1.12 28.448	0.84 0.38
1¼ 32	800002180	CB45044	300 2065	1.29 32.766	1.29 32.766	1.40 0.64
1½ 40	800002198	CB45055	300 2065	1.43 36.322	1.43 36.322	1.80 0.82
2 50	800002206	CB45066	300 2065	1.68 42.672	1.68 42.672	2.79 1.25

X



MATERIAL SPECIFICATIONS

Cast iron threaded fittings are UL & ULC Listed & Factory Mutual Approved for 300 psi service.
Gray iron per ASTM A126 Class B.

Dimensions conform to ANSI B16.4 Class 125.
Threads are NPT per ANSI/ASME B1.20.1.



APPROVED
For Listing / Approval
details contact your
AnvilStar™ Representative.

PROJECT INFORMATION:

APPROVAL STAMP:

Project:

Date:

Phone:

Architect / Engineer:

Contractor:

Address:

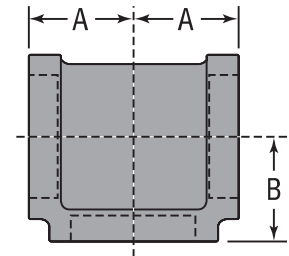
Notes 1:

Notes 2:



STRAIGHT TEE

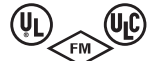
Nominal Size	Anvil Item Number	Universal Number	Max. Working Pressure	Dimensions		Approx. Wt. Each
				A	B	
In. (mm)			PSI (kPa)	In. (mm)	In. (mm)	Lbs. (kg)
X 1	800003204	CT333	300	1.50	1.50	1.21
25			2065	38.10	38.10	0.55
1 1/4	800003212	CT444	300	1.75	1.75	1.87
32			2065	44.45	44.45	0.85
1 1/2	800003220	CT555	300	1.94	1.94	2.51
40			2065	49.27	49.27	1.14
X 2	800003238	CT666	300	2.25	2.25	3.96
50			2065	57.15	57.15	1.80
2 1/2	800003246	CT777	300	2.70	2.70	6.45
65			2065	68.58	68.58	2.93



MATERIAL SPECIFICATIONS

Cast iron threaded fittings are UL & ULC Listed & Factory Mutual Approved for 300 psi service.
Gray iron per ASTM A126 Class B.

Dimensions conform to ANSI B16.4 Class 125.
Threads are NPT per ANSI/ASME B1.20.1.



APPROVED
For Listing / Approval
details contact your
AnvilStar™ Representative.

PROJECT INFORMATION:

APPROVAL STAMP:

Project:

Date:

Phone:

Architect / Engineer:

Contractor:

Address:

Notes 1:

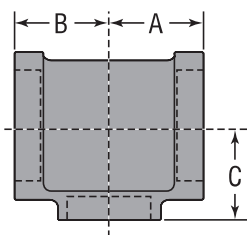
Notes 2:

REDUCING TEE



Cast Iron - Class 125 Fittings

Submittal Sheet



REDUCING TEE							
Nominal Size	Anvil Item Number	Universal Number	Max. Working Pressure	Dimensions			Approx. Wt. Each
In. (mm)			PSI (kPa)	A In. (mm)	B In. (mm)	C In. (mm)	Lbs. (kg)
1 x 1/2 x 1 25 x 15 x 25	800004244	CT313	300 2065	1.50 38.10	1.36 34.54	1.50 38.10	1.08 0.49
1 x 3/4 x 1 25 x 20 x 25	800004251	CT323	300 2065	1.50 38.10	1.45 36.83	1.50 38.10	1.18 0.54
1 x 1 x 1/2 25 x 25 x 15	800004269	CT331	300 2065	1.26 32.00	1.26 32.00	1.36 34.54	0.95 0.43
1 x 1 x 3/4 25 x 25 x 20	800004277	CT332	300 2065	1.37 34.79	1.37 34.79	1.45 36.83	1.10 0.50
1 1/4 x 1 x 1/2 32 x 25 x 15	800004301	CT431	300 2065	1.34 34.03	1.26 32.00	1.53 38.86	1.17 0.53
1 1/4 x 1 x 3/4 32 x 25 x 20	800004319	CT432	300 2065	1.45 36.83	1.37 34.79	1.62 41.14	1.38 0.63
1 1/4 x 1 x 1 32 x 25 x 25	800004327	CT433	300 2065	1.58 40.13	1.50 38.10	1.57 39.87	1.47 0.67
1 1/4 x 1 x 1 1/4 32 x 25 x 32	800004335	CT434	300 2065	1.75 44.45	1.67 42.41	1.75 44.45	1.80 0.82
1 1/4 x 1 1/4 x 1/2 32 x 32 x 15	800004350	CT441	300 2065	1.34 34.03	1.34 34.03	1.53 38.86	1.37 0.62
1 1/4 x 1 1/4 x 3/4 32 x 32 x 20	800004368	CT442	300 2065	1.45 36.83	1.45 36.83	1.62 41.14	1.54 0.70
1 1/4 x 1 1/4 x 1 32 x 32 x 25	800004376	CT443	300 2065	1.58 40.13	1.58 40.13	1.67 42.41	1.65 0.75
1 1/2 x 1 x 1/2 40 x 25 x 15	800004400	CT531	300 2065	1.41 35.81	1.34 34.03	1.66 42.16	1.41 0.64
1 1/2 x 1 x 3/4 40 x 25 x 20	800004418	CT532	300 2065	1.52 38.60	1.37 34.79	1.75 44.45	1.65 0.75
1 1/2 x 1 x 1 40 x 25 x 25	800004426	CT533	300 2065	1.65 41.91	1.50 38.10	1.80 45.72	1.65 0.75
1 1/2 x 1 x 1 1/4 40 x 25 x 32	800004434	CT534	300 2065	1.82 46.22	1.67 42.41	1.88 47.75	2.00 0.91
1 1/2 x 1 x 1 1/2 40 x 25 x 40	800004442	CT535	300 2065	1.94 49.27	1.8 45.72	1.94 49.27	2.30 1.04
1 1/2 x 1 1/4 x 1/2 40 x 32 x 15	800004459	CT541	300 2065	1.41 35.81	1.34 34.03	1.66 42.16	1.58 0.72
1 1/2 x 1 1/4 x 3/4 40 x 32 x 20	800004467	CT542	300 2065	1.52 38.60	1.45 36.83	1.75 44.45	1.72 0.78
1 1/2 x 1 1/4 x 1 40 x 32 x 25	800004475	CT543	300 2065	1.65 41.91	1.58 40.13	1.80 45.72	1.85 0.84

REDUCING TEE							
Nominal Size	Anvil Item Number	Universal Number	Max. Working Pressure	Dimensions			Approx. Wt. Each
In. (mm)			PSI (kPa)	A In. (mm)	B In. (mm)	C In. (mm)	Lbs. (kg)
1 1/2 x 1 1/4 x 1 1/4 40 x 32 x 32	800004483	CT544	300 2065	1.82 46.22	1.75 44.45	1.88 47.75	2.22 1.00
1 1/2 x 1 1/4 x 1 1/2 40 x 32 x 15	800004491	CT545	300 2065	1.94 49.27	1.88 47.75	1.94 49.27	2.45 1.11
1 1/2 x 1 1/2 x 1 1/2 40 x 40 x 15	800004517	CT551	300 2065	1.41 35.81	1.41 35.81	1.66 42.16	1.76 0.80
1 1/2 x 1 1/2 x 3/4 40 x 40 x 20	800004525	CT552	300 2065	1.52 38.60	1.52 38.60	1.75 44.45	1.87 0.85
1 1/2 x 1 1/2 x 1 40 x 40 x 25	800004533	CT553	300 2065	1.65 41.91	1.65 41.91	1.80 45.72	1.94 0.88
1 1/2 x 1 1/2 x 1 1/4 40 x 40 x 32	800004541	CT554	300 2065	1.82 46.22	1.82 46.22	1.88 47.75	2.29 1.04
2 x 1 x 2 50 x 25 x 50	800004566	CT636	300 2065	2.25 57.15	2.02 51.30	2.25 57.15	3.40 1.54
2 x 1 1/4 x 2 50 x 32 x 50	800004574	CT646	300 2065	2.25 57.15	2.10 53.34	2.25 57.15	2.80 1.27
2 x 1 1/2 x 1/2 50 x 40 x 15	800004582	CT651	300 2065	1.49 37.84	1.41 35.81	1.88 47.75	2.09 0.95
2 x 1 1/2 x 3/4 50 x 40 x 20	800004590	CT652	300 2065	1.60 40.64	1.52 38.60	1.97 50.03	2.40 1.09
2 x 1 1/2 x 1 50 x 40 x 25	800004608	CT653	300 2065	1.73 43.94	1.65 41.91	2.02 51.30	2.54 1.15
2 x 1 1/2 x 1 1/4 50 x 40 x 32	800004616	CT654	300 2065	1.90 48.26	1.82 46.22	2.10 53.34	2.85 1.30
2 x 1 1/2 x 1 1/2 50 x 40 x 40	800004624	CT655	300 2065	1.49 37.84	1.41 35.81	1.88 47.75	2.24 1.02
2 x 1 1/2 x 2 50 x 40 x 50	800004632	CT656	300 2065	2.25 57.15	2.16 54.86	2.25 57.15	3.75 1.70
2 x 2 x 1/2 50 x 50 x 15	800004640	CT661	300 2065	1.49 37.84	1.49 37.84	1.88 47.75	2.60 1.18
2 x 2 x 3/4 50 x 50 x 20	800004657	CT662	300 2065	1.60 40.64	1.60 40.64	1.97 50.03	2.71 1.23
2 x 2 x 1 50 x 50 x 15	800004665	CT663	300 2065	1.73 43.94	1.73 43.94	2.02 51.30	2.97 1.35
2 x 2 x 1 1/4 50 x 50 x 32	800004673	CT664	300 2065	1.90 48.26	1.90 48.26	2.10 53.34	3.32 1.51
2 x 2 x 1 1/2 50 x 50 x 40	800004681	CT665	300 2065	2.02 51.30	2.02 51.30	2.16 54.86	3.72 1.69

MATERIAL SPECIFICATIONS

Cast iron threaded fittings are UL & ULC Listed & Factory Mutual Approved for 300 psi service.
Gray iron per ASTM A126 Class B.

Dimensions conform to ANSI B16.4 Class 125.
Threads are NPT per ANSI/ASME B1.20.1.



APPROVED
For Listing / Approval
details contact your
AnvilStar™ Representative.

PROJECT INFORMATION:

APPROVAL STAMP:

Project:		
Date:	Phone:	
Architect / Engineer:		
Contractor:		
Address:		
Notes 1:		
Notes 2:		

FIG. 7050

90° Elbow*

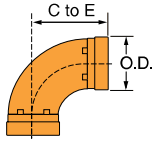


FIGURE 7050
90° ELBOW*

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2 1/4 C	0.6
25	33.4	57	0.3
1 1/4	1.660	2 3/4 C	1.0
32	42.2	70	0.5
1 1/2	1.900	2 3/4 C	1.2
40	48.3	70	0.5
2	2.375	3 1/4 C	1.7
50	60.3	83	0.8
2 1/2	2.875	3 3/4 C	2.6
65	73.0	95	1.2
3 O.D.	2.996	4 C	3.6
76.1	76.1	102	1.6
3	3.500	4 1/4 C	4.0
80	88.9	108	1.8
3 1/2	4.000	4 1/2 C	5.5
90	101.6	114	2.5
4 1/4 O.D.	4.250	4 3/4 C	7.7
108.0	108.0	121	3.5
4	4.500	5 C	7.7
100	114.3	127	3.5
5 1/4 O.D.	5.236	5 1/4 C	10.4
133.0	133.0	133	4.7
5 1/2 O.D.	5.500	5 1/4 C	10.9
139.7	139.7	133	4.9
5	5.563	5 1/2 C	11.1
125	141.3	140	5.0
6 1/4 O.D.	6.259	6 C	15.2
159.0	159.0	152	6.9
6 1/2 O.D.	6.500	6 1/2 C	17.4
165.1	165.1	165	7.9
6	6.625	6 1/2 C	16.5
150	168.3	165	7.5
8	8.625	7 3/4 C	30.6
200	219.1	197	13.9
10	10.750	9 C	53.5
250	273.1	229	24.3
12	12.750	10 C	82
300	323.9	254	37.2
14	14.000	21	169.0
350	355.6	533	76.7
16	16.000	24	222.0
400	406.4	610	100.7
18	18.000	27	280.0
450	457.2	686	127.0
20	20.000	30	344.0
500	508.0	762	156.0
24	24.000	36	490.0
600	609.6	914	222.3

FIG. 7051

45° Elbow*

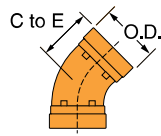


FIGURE 7051
45° ELBOW*

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	1 3/4 C	0.5
25	33.4	44	0.2
1 1/4	1.660	1 3/4 C	0.7
32	42.2	44	0.3
1 1/2	1.900	1 3/4 C	0.9
40	48.3	44	0.4
2	2.375	2 C	1.5
50	60.3	51	0.7
2 1/2	2.875	2 1/4 C	1.9
65	73.0	57	0.9
3 O.D.	2.996	2 1/2 C	2.2
76.1	76.1	64	1.0
3	3.500	2 1/2 C	3.3
80	88.9	64	1.5
3 1/2	4.000	2 3/4 C	4.3
90	101.6	70	2.0
4 1/4 O.D.	4.250	2 3/4 C	4.4
108.0	108.0	83	2.0
4	4.500	3 C	5.4
100	114.3	76	2.4
5 1/4 O.D.	5.236	3 1/4 C	7.3
133.0	133.0	83	3.3
5 1/2 O.D.	5.500	3 1/4 C	7.8
139.7	139.7	83	3.5
5	5.563	3 1/4 C	9.0
125	141.3	83	4.1
6 1/4 O.D.	6.259	3 1/2 C	10.1
159.0	159.0	89	4.6
6 1/2 O.D.	6.500	3 1/2 C	11.1
165.1	165.1	89	5.0
6	6.625	3 1/2 C	11.2
150	168.3	89	5.1
8	8.625	4 1/4 C	19.8
200	219.1	108	9.0
10	10.750	4 3/4 C	34.3
250	273.1	121	15.6
12	12.750	5 1/4 C	50.0
300	323.9	133	22.7
14	14.000	8 3/4	92.0
350	355.6	222	41.7
16	16.000	10	117.0
400	406.4	254	53.1
18	18.000	11 1/4	146.0
450	457.2	286	66.2
20	20.000	12 1/2	179.0
500	508.0	317	81.2
24	24.000	15	255.0
600	609.6	381	115.7

FIG. 7052

22 1/2° Elbow

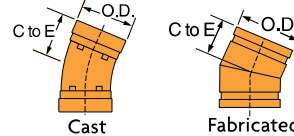


FIGURE 7052
22 1/2° ELBOW*

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	3 1/4	0.5
25	33.4	83	0.2
1 1/4	1.660	1 3/4	0.7
32	42.2	44	0.3
1 1/2	1.900	1 3/4	0.8
40	48.3	44	0.4
2	2.375	1 7/8 C	1.5
50	60.3	48	0.7
2 1/2	2.875	2	1.9
65	73.0	51	0.9
3	3.500	2 1/4 C	3.2
80	88.9	57	1.5
3 1/2	4.000	2 1/2	4.0
90	101.6	64	1.8
4	4.500	2 5/8 C	5.3
100	114.3	67	2.4
5	5.563	2 7/8	7.2
125	141.3	73	3.3
6	6.625	3 1/8 C	8.2
150	168.3	79	3.7
8	8.625	3 3/8 C	17.8
200	219.1	98	8.1
10	10.750	4 3/8	30.0
250	273.1	111	13.6
12	12.750	4 7/8	40.4
300	323.9	124	18.3
14	14.000	5	46.0
350	355.6	127	20.9
16	16.000	5	52.2
400	406.4	127	23.7
18	18.000	5 1/2	65.0
450	457.2	140	29.5
20	20.000	6	80.0
500	508.0	152	36.3
24	24.000	7	112.0
600	609.6	178	50.8

7052i

22 1/2° Elbow

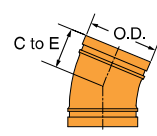


FIGURE 7052i
22 1/2° ELBOW*

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	1 3/8	0.5
25	33.4	41.28	0.227
1 1/4	1.675	1 3/4	1.0
32	42.2	44.45	0.454
1 1/2	1.900	1 3/4	1.0
40	48.3	44.45	0.454
2	2.375	1 7/8	1.5
50	60.3	47.63	0.680
2 1/2	2.875	2	2.0
65	73.0	50.8	0.907
3 O.D.	2.996	2	2.0
76.1	76.1	50.8	0.907
3	3.500	2 1/4	2.5
80	88.9	57.15	1.134
4	4.5	2 5/8	5.0
100	114.3	66.68	2.268
5 1/2 O.D.	5.500	2 3/4	7.0
139.7	139.7	73.03	3.175
5	5.563	2 7/8	7.5
125	141.3	73.03	3.402
6 1/2 O.D.	6.500	3 1/8	10.0
165.1	165.1	79.38	4.536
6	6.625	3 1/8	10.0
150	168.3	79.38	4.536
8	8.625	3 3/8	18.5
200	219.1	98.43	8.391
10	10.75	4 3/8	32.5
250	237.1	111.13	14.741
12	12.75	4 7/8	48.0
300	323.9	123.83	21.772

All 7052i fittings are cast ductile iron.



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

C - Cast malleable or ductile iron, all others are fabricated steel.

* 14"-24" Standard Radius 90° & 45° Elbows are 1 1/2.

Center to end dimensions and weights may differ from those shown in chart, contact an Anvil Representative for more information.

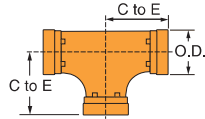
PROJECT INFORMATION

APPROVAL STAMP

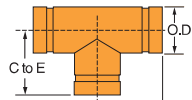
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

FIG. 7060

Tee



Cast



Fabricated

FIGURE 7060 TEE

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2 1/4 C	0.9
25	33.4	57	0.4
1 1/4	1.660	2 3/4 C	1.5
32	42.2	70	0.7
1 1/2	1.900	2 3/4 C	1.8
40	48.3	70	0.8
2	2.375	3 1/4 C	2.4
50	60.3	83	1.1
2 1/2	2.875	3 3/4 C	4.0
65	73.0	95	1.8
3 O.D.	2.996	4 C	4.6
76.1	76.1	101	2.1
3	3.500	4 1/4 C	5.8
80	88.9	108	2.6
3 1/2	4.000	4 1/2 C	9.8
90	101.6	114	4.4
4 1/4 O.D.	4.250	4 3/4 C	9.3
108.0	108.0	121	4.2
4	4.500	5 C	10.3
100	114.3	127	4.7
5 1/4 O.D.	5.236	5 1/4 C	14.1
133.0	133.0	133	6.4
5 1/2 O.D.	5.500	5 1/2 C	16.1
139.7	139.7	140	7.3
5	5.563	5 1/2 C	16.2
125	141.3	140	7.3
6 1/4 O.D.	6.259	6 C	20.8
159.0	159.0	152	9.4
6 1/2 O.D.	6.500	6 1/2 C	24.4
165.1	165.1	165	11.1
6	6.625	6 1/2 C	25.7
150	168.3	165	11.7
8	8.625	7 3/4 C	41.1
200	219.1	197	18.6
10	10.750	9 C	74.5
250	273.1	229	33.8
12	12.750	10 C	94.7
300	323.9	254	43.0
14	14.000	11	118.0
350	355.6	279	53.5
16	16.000	12	146.0
400	406.4	305	66.2
18	18.000	15 1/2	218.0
450	457.2	394	98.9
20	20.000	17 1/4	275.0
500	508.0	438	125
24	24.000	20	379.0
600	609.6	508	172

C - Cast malleable or ductile iron, all others are fabricated steel.

See Fitting Size chart on page 59 for O.D.



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

FIG. 7076

Gr x Thd

Concentric Reducers

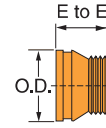


FIGURE 7076 CONCENTRIC REDUCER— GROOVE BY THREAD

Nominal Size	End to End	Approx. Wt. Ea.	Nominal Size	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg
1 1/2 x 1	2 1/2	0.6	3 1/2 x 3	3	1.8
40 x 25	64	0.3	90 x 80	76	0.8
2 x 3/4	2 1/2	1.0	4 x 1	3	2.2
50 x 80	64	0.5	100 x 25	76	1.0
2 x 1	2 1/2	0.8	4 x 1 1/2	3	2.3
50 x 25	64	0.4	100 x 40	76	1.0
2 x 1 1/4	2 1/2	1.3	4 x 2	3	2.3
50 x 32	64	0.6	100 x 50	76	1.0
2 x 1 1/2	2 1/2	1.3	4 x 2 1/2	3	2.3
50 x 40	64	0.6	100 x 65	76	1.0
2 1/2 x 1	2 1/2	1.0	4 x 3	3	2.6
65 x 25	64	0.5	100 x 80	76	1.2
2 1/2 x 1 1/4	2 1/2	1.0	4 x 3 1/2	3	2.5
65 x 32	64	0.5	100 x 90	76	1.1
2 1/2 x 1 1/2	2 1/2	1.3	5 x 4	3 1/2	4.5
65 x 40	64	0.6	125 x 100	89	2.0
2 1/2 x 2	2 1/2	1.2	6 x 1	4	6.0
65 x 50	64	0.5	150 x 25	102	2.7
3 x 3/4	2 1/2	1.2	6 x 2	4	6.0
80 x 80	64	0.5	150 x 50	102	2.7
3 x 1	2 1/2	1.2	6 x 3	4	6.0
80 x 25	64	0.5	150 x 80	102	2.7
3 x 1 1/2	2 1/2	1.3	6 x 4	4	5.9
80 x 40	64	0.6	150 x 100	102	2.7
3 x 2	2 1/2	1.3	6 x 5	4	5.8
80 x 50	64	0.6	150 x 125	102	2.6
3 x 2 1/2	2 1/2	1.5			
80 x 65	64	0.7			

All are Fabricated Steel.

See Fitting Size chart on page 59 for O.D.

PROJECT INFORMATION

APPROVAL STAMP

Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	



The Gruvlok® Figure 7000 Lightweight Coupling is designed for applications where system flexibility is desired.

The Figure 7000 Lightweight Coupling is approximately 30% lighter in weight than the Figure 7001 Coupling. Working pressure ratings shown are for reference only and are based on Schedule 40 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 Figure 7000 Lightweight Coupling with a Pre-Lubricated Grade "E" EPDM, Type "A" gasket (coupling is easily identified by purple nuts) is intended for use in fire protection systems installed in accordance with NFPA Standard 13 "Sprinkler Systems".



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

 - Available galvanized.

* When ordering, refer to product as FP7000.

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.

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.

- ☐ **Pre-Lubricated Grade "E" EPDM, Type A Gasket** (Violet color code)
-40°F to 150°F (Service Temperature Range)(-40°C to 66°C)
Recommended for wet and dry (oil free air) pipe fire protection sprinkler systems. For dry pipe systems and freezer applications, Gruvlok Xtreme™ Lubricant is required.

- ☐ **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.

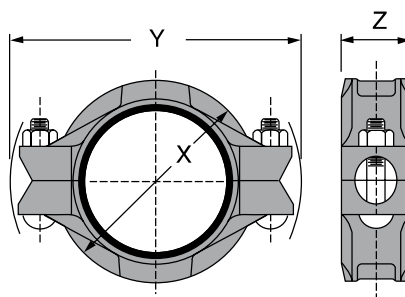
GASKET TYPE:

- ☐ Standard C Style
- ☐ Flush Gap

PROJECT INFORMATION

APPROVAL STAMP

Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	


FIGURE 7000 LIGHTWEIGHT COUPLING

Nominal Size	Pipe O.D.	Max. Working Pressure▲	Max. End Load	Range of Pipe End Separation	Deflection From $\mathcal{Q}$		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
					Per Coupling	Pipe	X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	Degrees	In./Ft.	In./mm	In./mm	In./mm		In./mm	Ft.-Lbs./N-m		Lbs./Kg
1¼	1.660	600	1,299	0-½	1° 5'	0.23	2¾	4⅞	1¾	2	¾ x 2¼	30	45	1.4
32	42.2	41.4	5.78	0-0.79		18.8	70	111	44		M10 x 57	40	60	0.6
1½	1.900	600	1,701	0-½	0° 57'	0.20	3	4⅞	1¾	2	¾ x 2¼	30	45	1.5
40	48.3	41.4	7.57	0-0.79		16.5	76	117	44		M10 x 57	40	60	0.7
2	2.375	600	2,658	0-½	0° 45'	0.16	3½	5½	1¾	2	¾ x 2¼	30	45	1.7
50	60.3	41.4	11.82	0-0.79		13.1	89	140	44		M10 x 57	40	60	0.8
2½	2.875	600	3,895	0-½	0° 37'	0.13	4	5¾	1¾	2	¾ x 2¼	30	45	1.9
65	73.0	41.4	17.33	0-0.79		10.9	102	146	44		M10 x 57	40	60	0.9
3 O.D.	2.996	600	4,230	0-½	0° 36'	0.13	4	6⅞	1¾	2	—	30	45	2.3
76.1	76.1	41.4	18.82	0-0.79		10.4	102	156	44		M10 x 57	40	60	1.0
3	3.500	600	5,773	0-½	0° 31'	0.11	4⅞	6¾	1¾	2	½ x 2¾	80	100	2.9
80	88.9	41.4	25.68	0-0.79		8.9	117	171	44		M12 x 70	110	150	1.3
4¼ O.D.	4.250	600	8,512	0-¾	1° 16'	0.70	5½	7¾	2	2	½ x 3	80	100	4.0
108.0	108.0	41.4	37.86	0-2.38		58.7	140	197	51		M12 x 76	110	150	1.8
4	4.500	600	9,543	0-¾	1° 12'	0.67	5⅞	8⅞	2	2	½ x 3	80	100	4.6
100	114.3	41.4	42.45	0-2.38		55.5	149	206	51		M12 x 76	110	150	2.1
5¼ O.D.	5.236	500	10,766	0-¾	1° 2'	0.57	6½	9⅞	2	2	⅝ x 3½	100	130	5.7
133.0	133.0	34.5	47.89	0-2.38		47.7	165	232	51		M16 x 85	135	175	2.6
5½ O.D.	5.500	500	11,879	0-¾	0° 59'	0.54	6¾	9⅞	2	2	—	100	130	6
139.7	139.7	34.5	52.84	0-2.38		45.4	171	238	51		M16 x 85	135	175	2.7
5	5.563	500	12,153	0-¾	0° 58'	0.54	7	9⅞	2	2	⅝ x 3½	100	130	6.1
125	141.3	34.5	54.06	0-2.38		45.1	178	244	51		M16 x 85	135	175	2.8
6¼ O.D.	6.259	500	15,384	0-¾	0° 51'	0.48	7½	10⅞	2	2	⅝ x 3½	100	130	6.7
159.0	159.0	34.5	68.43	0-2.38		39.8	191	264	51		M16 x 85	135	175	3.0
6½ O.D.	6.500	500	16,592	0-¾	0° 50'	0.46	7¾	10¾	2	2	—	100	130	7.0
165.1	165.1	34.5	73.80	0-2.38		34.8	197	273	51		M16 x 85	135	175	3.2
6	6.625	500	17,236	0-¾	0° 49'	0.45	8	11	2	2	⅝ x 3½	100	130	8.1
150	168.3	34.5	76.67	0-2.38		37.8	203	279	51		M16 x 85	135	175	3.7
8	8.625	500	29,213	0-¾	0° 37'	0.35	10	13¼	2⅞	2	¾ x 4½	130	180	14.2
200	219.1	34.5	129.95	0-2.38		29.1	264	337	60		M20 x 110	175	245	6.4

Not for use in copper system.

Range of Pipe End Separation and Angular Deflection values are for roll grooved pipe and may be doubled for cut groove pipe.

§ – For additional Bolt Torque information see Technical Data Section.

▲ – 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.

Other sizes available, see Gruvlok Catalog or contact an Anvil Representative.

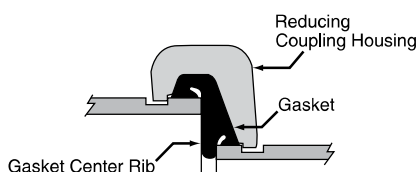


**For dry pipe systems and freezer applications
lubrication of the gasket is required,
Gruvlok® Xtreme™ Lubricant is required.**

FIG. 7010 Reducing Coupling



The Gruvlok® Figure 7010 Reducing Coupling makes it possible to directly connect two different pipe sizes, eliminating the need for two couplings and a reducing fitting. The specially designed reducing coupling gasket with a center rib assures proper positioning of the gasket and prevents the smaller pipe from telescoping into the larger during assembly. Working pressure ratings shown are for reference only and are based on Schedule 40 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.



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.

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:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

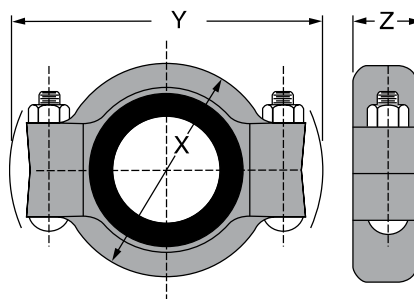


FIGURE 7010 REDUCING COUPLING

Nominal Size	Larger O.D.	Smaller O.D.	Max. Working Pressure ▲	Max. End Load	Range of Pipe End Separation	Deflection From $\mathcal{C}$		Coupling Dimensions			Coupling Bolts		Specified Torque §		Approx. Wt. Ea.
						Per Coupling	Pipe	X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	In./mm	In./mm	PSI/bar	Lbs./kN	In./mm	Degrees	In./ft. - mm/m	In./mm	In./mm	In./mm		In./mm	Ft.-Lbs./N-m		Lbs./Kg
2 x 1½ 50 x 40	2.375 60.3	1.900 48.3	500 34.5	2,215 9.85	0-½/32 0-0.79	0° 45'	0.16 13.1	3⅞ 92	5⅞ 149	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	2.0 0.9
2½ x 2 65 x 50	2.875 73.0	2.375 60.3	500 34.5	3,246 14.44	0-½/32 0-0.79	0° 37'	0.13 10.9	4¼ 108	6⅞ 162	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	3.5 1.6
3 O.D. x 2 76.1 x 60.3	2.858 72	2.262 57	500 34.5	2,115 9.41	0-½/32 0-3.2	0° 36'	0.12 9.9	4¼ 108	5⅞ 149	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	3.4 1.5
3 x 2 80 x 50	3.500 88.9	2.375 60.3	500 34.5	4,811 21.40	0-½/32 0-0.79	0° 31'	0.11 8.9	4⅞ 124	7⅞ 181	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	4.4 2.0
3 x 2½ 80 x 65	3.500 88.9	2.875 73.0	500 34.5	4,811 21.40	0-½/32 0-0.79	0° 31'	0.11 8.9	4⅞ 124	7⅞ 181	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	100 150	4.1 1.9
3 x 3 O.D. 88.9 x 76.1	3.356 85	2.858 73	500 34.5	2,886 12.84	0-½/32 0-3.2	0° 31'	0.11 8.9	4¼ 120	6⅞ 169	1⅞ 48	2	½ x 2¾ M12 x 76	80 110	110 150	3.7 1.7
4 x 2 100 x 50	4.500 114.3	2.375 60.3	500 34.5	7,952 35.37	0-¾/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	8.9 4.0
4 x 2½ 100 x 65	4.500 114.3	2.875 73.0	500 34.5	7,952 35.37	0-¾/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	7.9 3.6
4 x 3 O.D. 114.3 x 76.1	4.350 110	2.858 73	500 34.5	4,771 21.22	0-¾/32 0-4.8	1° 12'	0.25 20.8	6 152	8 203	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	6.7 3.0
4 x 3 100 x 80	4.500 114.3	3.500 88.9	500 34.5	7,952 35.37	0-¾/32 0-2.38	1° 12'	0.25 20.8	6¼ 159	8⅞ 225	2 51	2	⅝ x 3½ M16 x 95	100 135	130 175	6.7 3.0
5½ O.D. x 4 139.7 x 114.3	5.350 136	4.350 110	500 34.5	7,128 31.71	0-¾/32 0-4.8	1° 58'	0.20 10.8	7⅞ 181	9⅞ 245	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	9.8 4.4
5 x 3 125 x 80	5.563 141.3	3.500 88.9	500 34.5	7,292 32.44	0-¾/32 0-6.4	1° 58'	0.20 16.8	7¼ 184	10⅞ 270	2½ 54	2	¾ x 4½ M20 x 115	130 175	180 245	9.5 4.3
5 x 4 125 x 100	5.563 141.3	4.500 114.3	500 34.5	12,153 54.06	0-¾/32 0-2.38	1° 58'	0.20 16.8	7¼ 184	10⅞ 270	2½ 54	2	¾ x 4½ M20 x 115	130 175	180 245	11.4 5.2
6½ O.D. x 3 165.1 x 88.9	6.352 161	3.356 85	500 34.5	9,955 44.28	0-¾/32 0-6.4	1° 20'	0.26 18.2	8¼ 210	10⅞ 275	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	11.5 5.2
6½ O.D. x 4 165.1 x 114.3	6.352 161	4.350 110	500 34.5	9,955 44.28	0-¾/32 0-6.4	1° 20'	0.26 18.2	8¼ 210	10⅞ 275	2 51	2	¾ x 4½ M20 x 115	130 175	180 245	11.3 5.1
6 x 4 150 x 100	6.625 168.3	4.500 114.3	500 34.5	17,236 76.67	0-¾/32 0-2.38	0° 49'	0.17 14.1	8¼ 210	11⅞ 295	2½ 54	2	¾ x 4½ M20 x 115	130 175	180 245	13.4 6.1
6 x 5 150 x 125	6.625 168.3	5.562 141.3	500 34.5	17,236 76.67	0-¾/32 0-2.38	0° 49'	0.17 14.1	8½ 216	11⅞ 295	2½ 54	2	¾ x 4½ M20 x 115	130 175	180 245	13.5 6.1
8 x 6 200 x 150	8.625 219.1	6.625 168.3	500 34.5	29,213 129.95	0-¾/32 0-2.38	0° 37'	0.13 10.9	10½ 267	14 356	2¼ 57	2	¾ x 4½ M20 x 115	130 175	180 245	17.7 8.0
8 x 6½ O.D. 219.1 x 165.1	8.462 245	6.336 161	500 34.5	17,528 77.97	0-¾/32 0-6.4	0° 37'	0.13 10.9	10⅞ 275	13⅞ 333	2¼ 57	2	¾ x 4½ M20 x 115	130 175	180 245	17.0 7.7

Not for use in copper system.

Range of Pipe End Separation and Angular Deflection values are for roll grooved pipe and may be doubled for cut groove pipe.

§ – For additional Bolt Torque information see Technical Data Section.

▲ – 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.

Other sizes available, see Gruvlok Catalog or contact an Anvil Representative.

WARNING

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

Fig. 58 - Threaded Side Beam Bracket

Size Range — 3/8" rod, pipe sizes 1/2" thru 4"

Material — Carbon Steel

Function — Practical and economical bracket used to support piping from wood, concrete or steel beams.

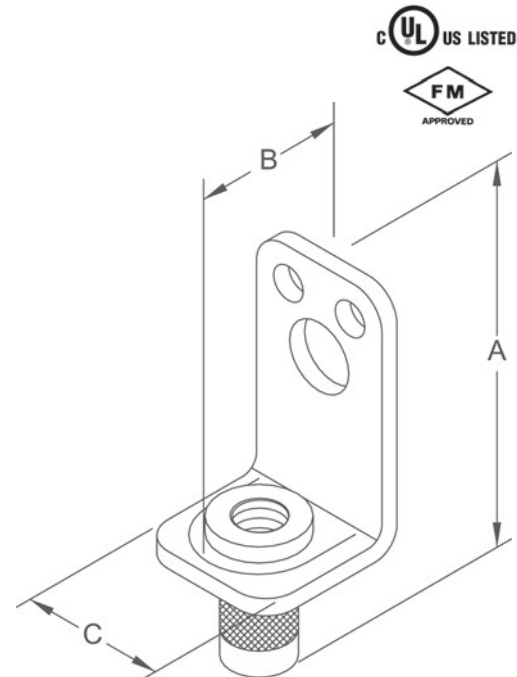
Features — Unique design allows rod to be easily threaded into bracket. Offset design permits unlimited rod adjustment. Center mounting hole will accept 3/8" and 1/2" fastener bolts. Per NFPA 13: 1/2" thru 2" pipe requires 3/8" fastener, 2 1/2" thru 4" pipe requires 1/2" fastener.*

Approvals — Underwriters' Laboratories Listed in the USA (UL) and Canada (cUL), and Factory Mutual Engineering approved thru 4" pipe.

***Note** — Additionally UL has listed the Fig. 58 with fasteners as shown in table below.

Finish — Pre-Galvanized

Order By — Figure number



UL Listed Fastener Table

Pipe Size	Qty.	Fastener Type	Material
2	2	#16 x 2 Drive Screws	Wood
2	1	3/8 Lag Bolt	Wood
2 1/2 - 4	1	1/2 Lag Bolt	Wood
3 1/2	2	1/4 x 1 1/2 Lag Bolt	Wood
4	2	1/4 x 2 Lag Bolts*	Wood
4	2	1/4 x 1 tek screws	14 gauge
4	2	1/4 x 1 tek screws	16 gauge

* No pre-drilling required

Dimensions • Weights

Pipe Size	Rod Size	A	B	C	Max. Rec. Load Lbs.*	Approx. Wt./100
1/2 thru 4	3/8	2 3/4	1 1/2	1 1/8	300	14

* With safety factor of 5.

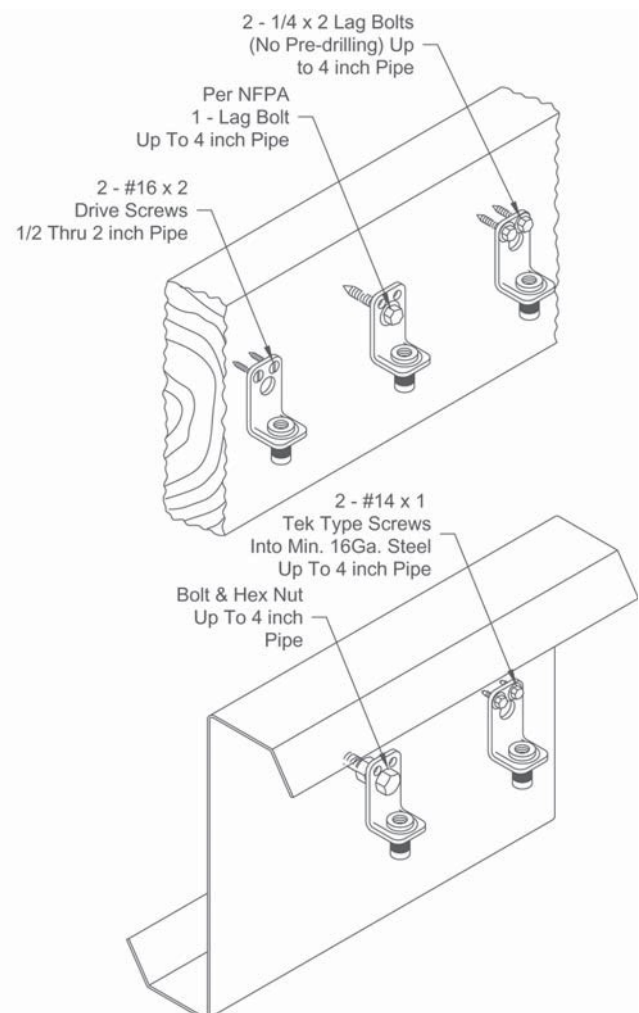


Fig. 98 - Rod Stiffener

Fig. 98B - Rod Stiffener w/Break-off Bolt Head

Size Range — Secures 3/8" thru 7/8" hanger rod

Material — Carbon Steel

Function — Secures channel to hanger rod for vertical seismic bracing.

Approvals — Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraint Systems Guidelines

Finish — Electro Galvanized

Note — Available in HDG finish or Stainless Steel materials.

Order By — Figure number

Component of State of
California OSHPD Approved
Seismic Restraints System

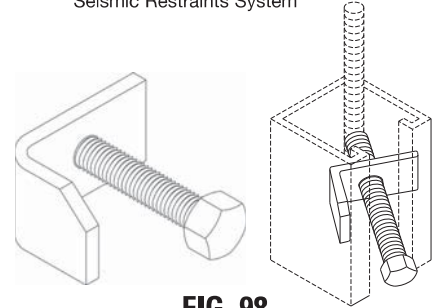


FIG. 98

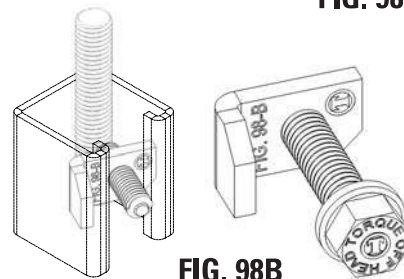


FIG. 98B

Fig. 99 - All Thread Rod Cut to Length

Size Range — Secures 3/8" thru 7/8" rod in 1" increments

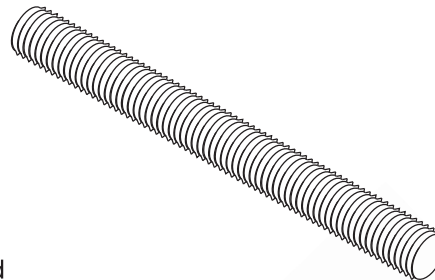
Material — Carbon Steel

Maximum Temperature — 750°F

Finish — Plain

Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.

Order By — Figure number, rod diameter, rod length and finish



Dimensions

Rod Size	Max. Rec. Load Lbs. For Service Temp 650°F
3/8	730
1/2	1350
5/8	2160
3/4	3230
7/8	4480

Fig. 100 - All Thread Rod Full Length

Size Range — Secures 3/8" thru 1½" rod in 10' lengths

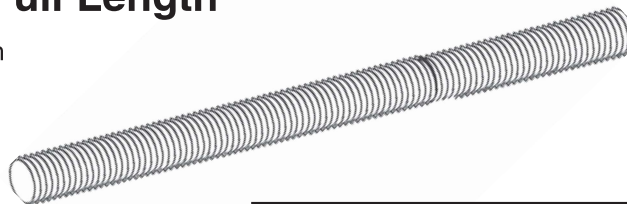
Material — Carbon Steel

Maximum Temperature — 750°F

Finish — Plain

Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.

Order By — Figure number, rod diameter and finish



Dimensions • Weights

Rod Size	Max Rec. Load Lbs. For Service Temps 650°F	Approx. Wt./100
1/4	240	12
3/8	730	29
1/2	1350	53
5/8	2160	84
3/4	3230	123
7/8	4480	169
1	5900	222
1¼	9500	360
1½	13800	510

Fig. 200 - "Trimline" Adjustable Band Hanger

Fig. 200R (Import) - "Trimline" Adjustable Band Hanger w/Retainer Ring



Size Range — 1/2" thru 8" pipe

Material — Carbon Steel, Mil. Galvanized to G90 specifications

Function — For fire sprinkler and other general piping purposes. Knurled swivel nut design permits hanger adjustment after installation.

Features —

- (1/2" thru 2") Flared edges ease installation for all pipe types and protect CPVC plastic pipe from abrasion. Captured design keeps adjusting nut from separating with hanger. Hanger is easily installed around pipe.
- (2½" thru 8") Spring tension on nut holds it securely in hanger before installation. Adjusting nut is easily removed.

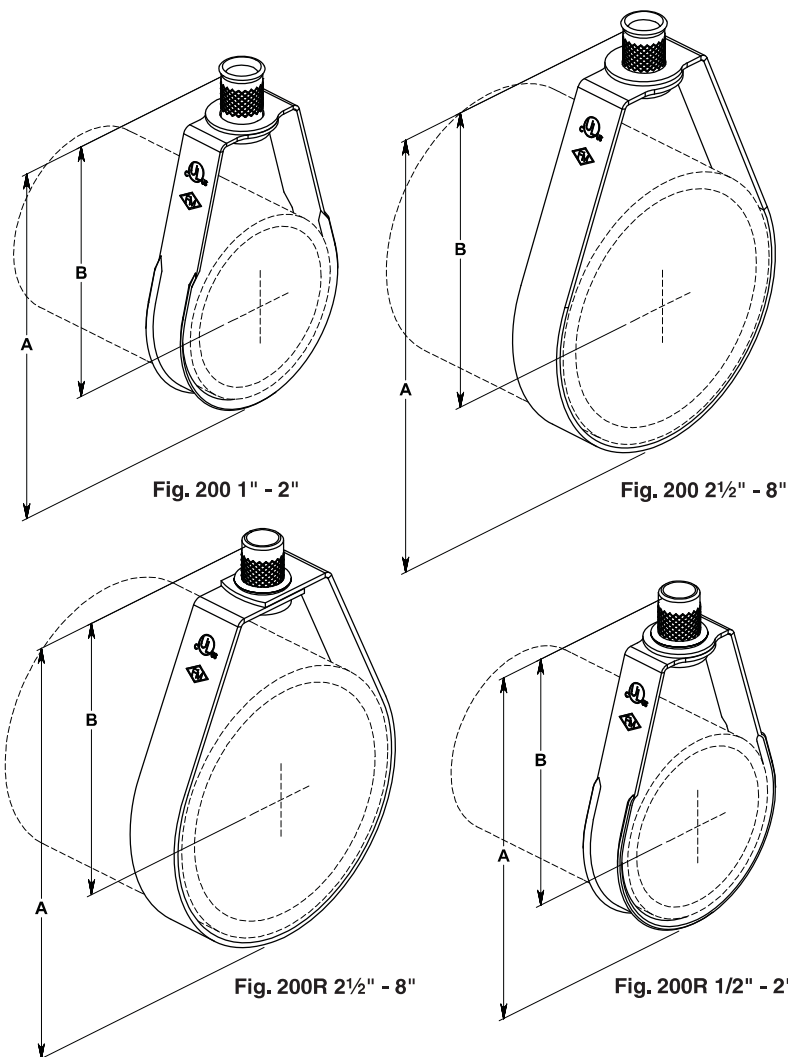
Approvals — Underwriters' Laboratories listed (1/2" thru 8") in the USA (**UL**) and Canada (**cUL**) for steel and CPVC plastic pipe and Factory Mutual Engineering Approved (3/4" thru 8"). Conforms to Federal Specifications WW-H-171E, Type 10 and Manufacturers Standardization Society SP-69, Type 10.

Maximum Temperature — 650°F

Finish — Mil. Galvanized. Stainless Steel materials will be supplied with (2) hex nuts in place of a knurl nub.

Order By — Figure number and pipe size

Note — Figure 200R (import) with retainer ring and non-captured knurl nut.



Dimensions • Weights

Pipe Size	Rod Size Inch	Rod Size Metric	A	B	Max. Rec. Load Lbs.	Approx. Wt./100
1/2	3/8	8mm or 10mm	3 1/8	2 5/8	400	11
3/4	3/8	8mm or 10mm	3 1/8	2 1/2	400	11
1	3/8	8mm or 10mm	3 3/8	2 5/8	400	12
1 1/4	3/8	8mm or 10mm	3 3/4	2 7/8	400	13
1 1/2	3/8	8mm or 10mm	3 7/8	2 7/8	400	14
2	3/8	8mm or 10mm	4 1/2	3	400	15
2 1/2	3/8	10mm	5 5/8	4 1/8	600	27
3	3/8	10mm	5 7/8	4	600	29
3 1/2	3/8	10mm	7 3/8	5 1/4	600	34
4	3/8	10mm	7 3/8	5	1000	35
5	1/2	12mm	9 1/8	6 1/4	1250	66
6	1/2	12mm	10 1/8	6 3/4	1250	73
8	1/2	12mm	13 1/8	8 3/4	1250	136