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GRUVLOK[®]

Stainless Steel

BUILDING CONNECTIONS THAT LAST



A Brand of Anvil International

Gruvlok® Figure 7400SS Rigidlite® Coupling

The Gruvlok Figure 7400SS Rigidlite Coupling is available in 1 1/4" - 8" sizes. The standard material is ASTM A743 CF8M (Type 316) Cast Stainless Steel which is ideal for corrosive environments.

Any Gruvlok gasket material may be utilized in the 7400SS coupling for a broad array of applications. Gasket properties are as designated in accordance with ASTM D2000. The 7400SS is provided with hex head Type 316, Class 1 Stainless Steel bolts and heavy stainless steel Nuts. This bolt and nut combination minimizes the chances of stress corrosion cracking. All nuts and bolts are zinc plated to reduce common thread galling.

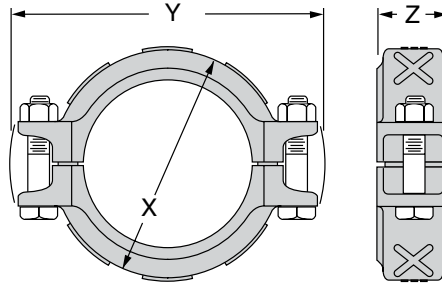


FIGURE 7400SS COUPLING

Nominal Size	O.D.	Max. Wk. Pressure	Max. End Load†	Range of Pipe End Separation	Coupling Dimensions			Coupling Bolts*		Specified Torque		Approx. Wt. Ea.
					X	Y	Z	Qty.	Size	Min.	Max.	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm		In.	Ft.-Lbs.		Lbs./Kg	
1 1/4 32	1.660 42.4	300 20.7	649 2.89	0-1/8 0-3.2	2 7/8 73	4 1/2 105	1 3/4 44	2	3/8 x 2 1/4	15	20	1.6 0.7
1 1/2 40	1.900 48.3	300 20.7	851 3.78	0-1/8 0-3.2	3 1/8 79	4 5/8 117	1 3/4 44	2	3/8 x 2 1/4	15	20	1.7 0.8
2 50	2.375 60.3	300 20.7	1,329 5.91	0-1/8 0-3.2	3 3/8 92	5 3/8 137	1 3/4 44	2	3/8 x 2 1/4	15	20	2.1 1.0
2 1/2 65	2.875 73.0	300 20.7	1,948 8.66	0-1/8 0-3.2	4 1/8 105	5 7/8 149	1 3/4 44	2	3/8 x 2 1/4	15	20	2.3 1.0
3 80	3.500 88.9	300 20.7	2,886 12.84	0-1/8 0-3.2	4 5/8 117	6 3/8 168	1 3/4 44	2	1/2 x 2 3/4	50	60	3.1 1.4
4 100	4.500 114.3	300 20.7	4,771 21.22	0-1/4 0-6.4	6 152	7 3/4 197	1 7/8 48	2	1/2 x 2 3/4	50	60	4.4 2.0
6 150	6.625 168.3	275 19.0	9,480 42.17	0-1/4 0-6.4	8 1/8 206	11 1/8 283	2 51	2	3/4 x 3	80	100	7.8 3.5
8 200	8.625 219.1	275 19.0	16,067 71.47	0-1/4 0-6.4	10 3/8 264	13 3/8 346	2 3/8 60	2	3/4 x 3	80	100	13.2 6.0

* Bolts are hex head design Type 316 Grade B8M Class 1 Stainless Steel to ASTM A193, with Type 316 Grade 8M Stainless Steel heavy hex nuts conforming to ASTM A194. Use of suitable anti-galling thread compound is recommended.

† Ratings apply when used with Schedule 40 ASTM A312 Type 304 and Type 316 Stainless Steel pipe for all sizes.

Caution: Contact your Anvil Representative for corrosive application environments. No coating or zinc options.

Gruvlok® Coupling & Flange Working Pressure Ratings (PSI)

The following are pressure ratings for Gruvlok Stainless Steel Piping Systems. The ratings for Schedule 10S pipe are based upon the use of roll-groover roll sets that have been specifically designed for use on Schedule 10 Stainless Steel pipe. Using roll sets that were designed for roll grooving standard wall pipe may significantly reduce the pressure ratings that can be obtained. The Model 1007/3007 roll groovers require the use of the optional Schedule 10 roll set to groove Schedule 5S and 10S. For grooving Schedule 40S on the Model 1007/3007 roll groovers, the standard steel roll grooving set should be used.

GRUVLOK COUPLING & FLANGE WORKING PRESSURE RATINGS (PSI) ON 304 AND 316 STAINLESS STEEL ROLL GROOVED PIPE														
Nominal Pipe Size	Pipe O.D.	Nominal Wall Thickness	Pipe Schedule Number	Coupling and Flanges										
				Fig. 7000 Lightweight	Fig. 7001 Standard	Fig. 7003 Hingelok	Fig. 7004 HPR	Fig. 7010* Reducing	Fig. 7012 Flange	Fig. 7013 Flange	Fig. 7400 Rigidlite	Fig. 7401 Rigidlok	Fig. 7400SS Coupling	
In./DN(mm)	In./mm	Inches	–	PSI										
1 25	1.315 33.4	0.065	5S	400	400	–	–	–	–	–	–	300	–	–
		0.109	10S	400	500	–	–	–	–	–	–	300	–	–
		0.133	40	500	750	–	–	–	–	–	–	300	–	–
1¼ 32	1.660 42.4	0.065	5S	400	400	–	–	–	–	–	–	300	–	275
		0.109	10S	500	500	–	–	–	–	–	–	300	–	300
		0.140	40	500	750	–	–	–	–	–	–	300	–	300
1½ 40	1.900 48.3	0.065	5S	400	400	275	–	–	–	–	–	300	400	275
		0.109	10S	500	500	300	–	–	–	–	–	300	500	300
		0.145	40	500	750	300	–	–	–	–	–	300	750	300
2 50	2.375 60.3	0.065	5S	250	325	250	325	250	250	250	275	250	325	275
		0.109	10S	500	500	300	500	500	500	300	300	300	500	300
		0.154	40	500	750	300	750	500	300	300	300	300	750	300
2½ 65	2.875 73.0	0.083	5S	250	325	250	325	250	250	250	275	250	325	200
		0.120	10S	500	500	300	500	500	500	300	300	300	500	300
		0.203	40	500	750	300	750	500	300	300	300	300	750	300
3 80	3.500 88.9	0.083	5S	250	325	250	325	250	250	250	275	250	325	200
		0.120	10S	500	500	300	500	500	500	300	300	300	500	300
		0.216	40	500	750	300	750	500	300	300	300	300	750	300
4 100	4.500 114.3	0.083	5S	200	250	200	250	200	200	200	250	200	250	200
		0.120	10S	300	400	300	400	300	300	300	300	300	400	300
		0.237	40	500	750	300	750	500	300	300	300	300	750	300
5 125	5.563 141.3	0.109	5S	125	200	125	200	125	125	125	200	125	200	–
		0.134	10S	200	300	200	300	200	200	200	300	200	300	–
		0.258	40	300	500	300	500	300	300	300	300	300	500	–
6 150	6.625 168.3	0.109	5S	75	125	75	125	75	75	75	125	75	125	125
		0.134	10S	200	200	200	200	200	200	200	200	200	200	250
		0.280	40	300	500	300	500	300	300	300	300	300	500	275
8 200	8.625 219.1	0.109	5S	50	75	50	75	50	50	50	75	50	75	75
		0.148	10S	150	200	150	200	150	150	150	200	150	200	150
		0.322	40	300	400	300	400	300	300	300	300	300	400	275
10 250	10.750 273.0	0.134	5S	–	50	–	50	–	50	50	50	–	50	–
		0.165	10S	–	100	–	100	–	100	100	100	–	100	–
		0.365	40	–	400	–	400	–	300	300	300	–	400	–
12 300	12.750 323.9	0.156	5S	–	75	–	75	–	50	75	–	75	–	
		0.180	10S	–	125	–	125	–	100	125	–	125	–	
		0.375	40	–	400	–	400	–	300	300	–	400	–	

- Notes:**
- 1) Pressure ratings based on ASTM A312 Type 304 stainless steel pipe or equivalent.
 - 2) Failure to use Rollers specifically designed for Stainless Steel Pipe may significantly reduce pressure retention capabilities.
 - 3) Pressure ratings on cut grooved pipe meet or exceed the schedule 40 pressure ratings listed above. For information regarding higher ratings contact Anvil.
 - 4) * For pressure ratings on Figure 7010 Reducing Couplings use larger pipe size.
 - 5) For pressure ratings for the reducing tees, concentric reducers and eccentric reducers, use the rating of the weakest end.
 - 6) Pressure ratings on schedule 10 stainless steel pipe may be increased by using Anvil's 1007/3007 roll groovers with the schedule 10 roller set. Contact Anvil for details.



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Gruvlok® Stainless Steel Fittings

Anvil offers two different sets of stainless steel fittings. The Gruvlok **A** Series Fittings have full flow designs formed from type 304SS pipe. The Schedule 10 fittings are fabricated from segmentally welded 316SS unless otherwise noted and are also available as Schedule 40 and/or Type 304SS.



Gruvlok **A** Series Stainless Steel Fittings are full flow design with ends grooved to Gruvlok specifications. The **A** Series standard material is formed from Type 304 Stainless Steel. The **A** Series Fittings are annealed after forming and grooving to provide increased corrosion resistance. Gruvlok **A** Series Stainless Steel 45° and 90° elbows and tees have compact center-to-end dimensions which make installation quick and easy with the Gruvlok Figure 7400SS Coupling, or other Gruvlok products.

Pressure Rating for the Gruvlok **A** Series Stainless Steel Fittings:

The following are pressure ratings for the Gruvlok **A** Series Stainless Steel Fittings. The pressure rating for the Reducing Tees and Concentric Reducers should be based upon the rating of the weakest end.

A SERIES SS FITTING PRESSURE RATINGS										
Sizes	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"
Pressure (psi)	500	500	500	500	500	500	400	250	100	200

SECTION 1 - Grooved Fittings

Gruvlok® Stainless Steel Fittings Type 304SS

FIG. A7050SS

90° Stainless Steel Elbow
Type 304

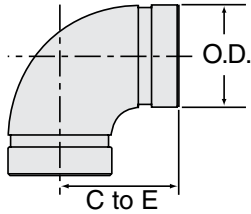


FIGURE A7050SS 90° STAINLESS STEEL ELBOW		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼	2 ³ / ₁₆	0.8
32	71.44	0.4
1½	3	1.0
40	76.20	0.5
2	3 ¹ / ₁₆	1.3
50	93.66	0.6
2½	4 ⁵ / ₁₆	1.8
65	109.54	0.8
3	5 ¹ / ₁₆	2.9
80	128.59	1.3
4	6 ⁵ / ₁₆	4.6
100	160.34	2.1
5	7 ¹ / ₂	8.3
125	190.50	3.7
6	9	11.2
150	228.60	5.1
8	12	22.7
200	304.80	10.3
10	15	35.3
250	381.00	16.0
12	18	56.9
300	457.20	25.8

FIG. A7051SS

45° Stainless Steel Elbow
Type 304

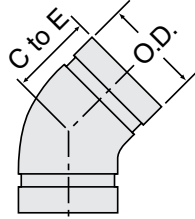


FIGURE A7051SS 45° STAINLESS STEEL ELBOW		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼	1¾	0.4
32	44.45	0.2
1½	1⅞	0.5
40	47.63	0.2
2	2 ¹ / ₈	0.7
50	53.98	0.3
2½	2 ³ / ₈	0.9
65	60.33	0.4
3	2 ³ / ₁₆	1.5
80	71.44	0.7
4	3 ⁵ / ₁₆	2.4
100	84.14	1.1
5	3 ⁷ / ₈	4.4
125	98.43	2.0
6	4 ¹ / ₂	6.0
150	114.30	2.7
8	5 ⁷ / ₈	11.7
200	149.23	5.3
10	7 ¹ / ₈	17.6
250	180.98	8.0
12	8 ⁵ / ₈	27.6
300	219.08	12.5

FIG. A7060SS

Stainless Steel Tee
Type 304

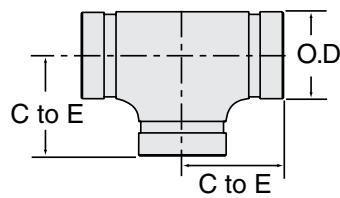


FIGURE A7060SS STAINLESS STEEL TEE		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼	2¾	1.1
32	69.85	0.5
1½	2 ¹⁵ / ₁₆	1.3
40	74.61	0.6
2	3 ³ / ₁₆	3.2
50	80.96	1.5
2½	3 ¹¹ / ₁₆	4.4
65	93.66	2.0
3	4	5.8
80	101.60	2.6
4	4 ¹⁵ / ₁₆	8.6
100	125.41	3.9
5	5¾	14.5
125	146.05	6.6
6	6½	18.5
150	165.10	8.4
8	8 ¹ / ₁₆	25.5
200	204.79	11.6
10	9½	36.5
250	241.30	16.6
12	11	64.5
300	279.40	29.3

FIG. A7074SS

Stainless Steel Cap
Type 304

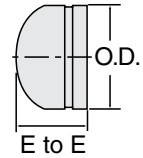


FIGURE A7074SS STAINLESS STEEL CAP		
Nominal Size	End to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼	1¾	0.4
32	44.45	0.2
1½	1¾	0.4
40	44.45	0.2
2	2	0.4
50	50.80	0.2
2½	2 ³ / ₁₆	0.9
65	55.56	0.4
3	2 ⁹ / ₁₆	1.1
80	65.09	0.5
4	2 ¹⁵ / ₁₆	1.5
100	74.61	0.7
5	3 ⁷ / ₈	2.5
125	79.38	1.1
6	3 ³ / ₁₆	3.1
150	90.49	1.4
8	4	6.6
200	101.60	3.0
10	5	9.9
250	127.00	4.5
12	6	15.2
300	152.40	6.9

Notes: 1) *Dimensions may differ from those shown above. Contact an Anvil Representative for more information.
2) For A Series 304 SS pressure ratings refer to the chart on page 4.

FIG. A 7061SS

Stainless Steel Reducing Tee
Type 304

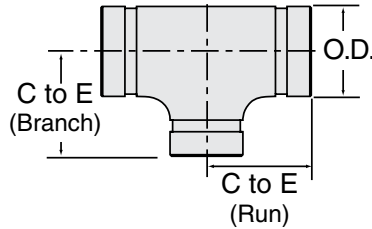


FIGURE A7061SS STAINLESS STEEL REDUCING TEE			
Nominal Size	Center to End (Run)	Center to End (Branch)	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1½ x 1¼ 40 x 32	2 ¹⁵ / ₁₆ 74.61	2¾ 69.85	1.3 0.6
2 x 1¼ 50 x 32	3 ¹ / ₁₆ 80.96	2 ¹⁵ / ₁₆ 74.61	1.8 0.8
2 x 1½ 50 x 40	3 ¹ / ₁₆ 80.96	3 ¹ / ₁₆ 77.79	1.8 0.8
2½ x 1½ 65 x 40	3 ¹¹ / ₁₆ 93.66	3 ⁵ / ₁₆ 84.14	2.7 1.2
2½ x 2 65 x 50	3 ¹¹ / ₁₆ 93.66	3 ⁵ / ₁₆ 90.49	2.7 1.2
3 x 1½ 80 x 40	4 101.60	3 ⁵ / ₁₆ 90.49	3.1 1.4
3 x 2 80 x 50	4 101.60	3 ¹¹ / ₁₆ 93.66	5.1 2.3
3 x 2½ 80 x 65	4 101.60	3 ⁷ / ₈ 98.43	5.4 2.4
4 x 2 100 x 50	4 ¹⁵ / ₁₆ 125.41	4 ⁵ / ₁₆ 109.54	8.0 3.6
4 x 2½ 100 x 65	4 ¹⁵ / ₁₆ 125.41	4 ⁵ / ₈ 117.48	5.3 2.4
4 x 3 100 x 80	4 ¹⁵ / ₁₆ 125.41	4¾ 120.65	8.6 3.9
6 x 3 150 x 80	6½ 165.10	5 ¹³ / ₁₆ 147.64	16.8 7.6
6 x 4 150 x 100	6½ 165.10	6 152.40	16.8 7.6
8 x 4 200 x 100	8 ¹ / ₁₆ 204.79	7 ¹ / ₁₆ 182.56	29.7 13.4
8 x 6 200 x 150	8 ¹ / ₁₆ 204.79	7 ¹¹ / ₁₆ 195.26	33.4 15.1
10 x 6 250 x 150	9½ 241.30	8 ⁷ / ₈ 255.43	21.6 9.8
10 x 8 250 x 200	9½ 241.30	9 ¹ / ₁₆ 230.19	32.2 14.6
12 x 8 300 x 200	11 279.40	10 ¹ / ₁₆ 255.59	47.2 21.4
12 x 10 300 x 250	11 279.40	10 ⁹ / ₁₆ 268.29	62.5 28.3

FIG. A 7072SS

Stainless Steel Concentric Reducer
Type 304

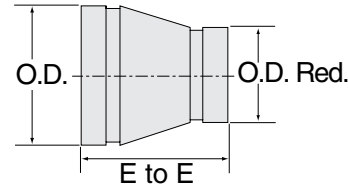


FIGURE A7072SS STAINLESS STEEL CONCENTRIC REDUCER		
Nominal Size	End to End*	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1½ x 1¼ 40 x 32	¾ 95.25	0.4 0.2
2 x 1¼ 50 x 32	4/8 104.78	0.7 0.3
2 x 1½ 50 x 40	4/8 104.78	0.7 0.3
2½ x 1½ 65 x 40	4 ⁷ / ₁₆ 112.71	1.1 0.5
2½ x 2 65 x 50	4 ⁷ / ₁₆ 112.71	1.1 0.5
3 x 1½ 80 x 40	4 ³ / ₄ 120.65	1.3 0.6
3 x 2 80 x 50	4 ³ / ₄ 120.65	1.3 0.6
3 x 2½ 80 x 65	4 ³ / ₄ 120.65	1.3 0.6
4 x 2 100 x 50	5 ⁵ / ₁₆ 134.94	1.8 0.8
4 x 2½ 100 x 65	5 ⁵ / ₁₆ 134.94	1.8 0.8
4 x 3 100 x 80	5 ⁵ / ₁₆ 134.94	2.0 0.9
6 x 3 150 x 80	6¾ 171.45	3.8 1.7
6 x 4 150 x 100	6¾ 171.45	4.0 1.8
8 x 4 200 x 100	7 ⁹ / ₁₆ 192.09	6.6 3.0
8 x 6 200 x 150	7 ⁹ / ₁₆ 192.09	7.3 3.3
10 x 6 250 x 150	8 ¹ / ₁₆ 220.66	9.7 4.4
10 x 8 250 x 200	8 ¹ / ₁₆ 220.66	10.6 4.8
12 x 8 300 x 200	9 ⁹ / ₁₆ 239.71	15.0 6.8
12 x 10 300 x 250	9 ⁹ / ₁₆ 239.71	15.9 7.2

- Notes:**
- 1) *Dimensions may differ from those shown above. Contact an Anvil Representative for more information.
 - 2) For Series 304 SS pressure ratings refer to the chart on page 4.
 - 3) The pressure rating for the reducing tees and concentric reducers is based upon the rating of the weakest end.

Gruvlok® Stainless Steel Fittings Type 316SS

Gruvlok Schedule 10 Stainless Steel Fittings are segmentally welded with ends grooved to Gruvlok specifications. The standard material is 316 Stainless Steel unless otherwise noted with 304SS and/or Schedule 40 optional. Installation is quick and easy with the Gruvlok Figure 7400SS Coupling, or other Gruvlok product.

FIG. 7050SS

90° Stainless Steel Elbow
Type 316

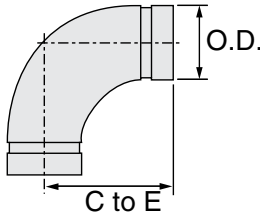


FIGURE 7050SS 90° STAINLESS STEEL ELBOW		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼ 32	3¾ 98	1.2 0.5
1½ 40	4¼ 108	1.4 0.6
2 50	4¾ 111	2.3 1.0
2½ 65	5¾ 146	3.3 1.5
3 80	5¾ 149	4.6 2.1
4 100	7½ 191	7.9 3.6
6 150	10¾ 273	17.0 7.7
8 200	15 381	29.4 13.4
10 250	18 457	41.8 18.9
12 300	21 533	46.5 21.1

FIG. 7051SS

45° Stainless Steel Elbow
Type 316

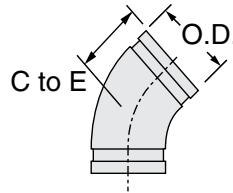


FIGURE 7051SS 45° STAINLESS STEEL ELBOW		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼ 32	2½ 64	0.7 0.3
1½ 40	2½ 64	0.9 0.4
2 50	2½ 64	1.5 0.7
2½ 65	3 76	1.9 0.9
3 80	3¾ 86	3.3 1.5
4 100	4 102	5.4 2.4
6 150	5½ 140	11.2 5.1
8 200	7¼ 184	19.8 9.0
10 250	8½ 216	21.0 9.5
12 300	10 254	23.0 10.4

FIG. 7060SS

Stainless Steel Tee
Type 316

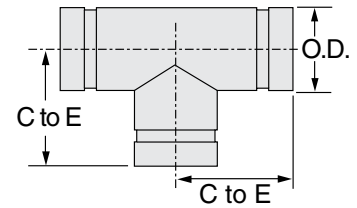
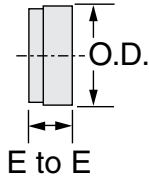


FIGURE 7060SS STAINLESS STEEL TEE		
Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1¼ 32	2¾ 70	1.5 0.7
1½ 40	2¾ 70	1.8 0.8
2 50	3¼ 83	2.4 1.1
2½ 65	3¾ 95	4.0 1.8
3 80	4¼ 108	5.8 2.6
4 100	5 127	10.3 4.7
6 150	6½ 165	25.7 11.7
8 200	7¾ 197	41.1 18.6
10 250	9 229	36.0 16.3
12 300	10 254	48.4 22.0

- Notes:**
- 1) *Dimensions may differ from those shown above. Contact an Anvil Representative for more information.
 - 2) Fabricated fittings weights are based on Schedule 10 pipe.
 - 3) Fabricated Schedule 10, 316SS and Schedule 40 Center to End dimensions are the same.
 - 4) The pressure rating for the Gruvlok Schedule 10 Stainless Steel Fittings are equal to the pressure rating of the coupling used on Schedule 10 pipe as shown in the Working Pressure Ratings Chart for Stainless Steel Roll Grooved Pipe on page 3.

FIG. 7074SS

Stainless Steel Cap
Type 316

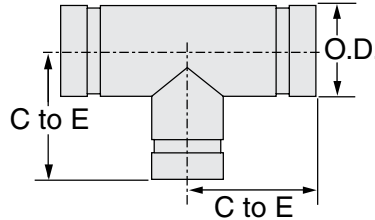


**FIGURE 7074SS
STAINLESS STEEL CAP**

Nominal Size	End to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1 1/4 32	1 5/8 41	0.4 0.2
1 1/2 40	1 5/8 41	0.5 0.2
2 50	1 5/8 41	0.8 0.4
2 1/2 65	1 3/4 45	1.1 0.5
3 80	1 3/4 45	1.6 0.7
4 100	1 3/4 45	2.8 1.3
6 150	1 5/8 48	3.7 1.7
8 200	2 1/4 57	8.8 4.0
10 250	2 1/4 57	12.1 5.5
12 300	2 1/4 57	17.3 7.8

FIG. 7061SS

Stainless Steel Reducing Tee
Type 316

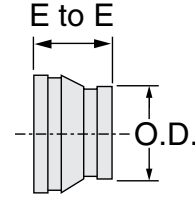


**FIGURE 7061SS
STAINLESS STEEL REDUCING TEE**

Nominal Size	Center to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1 1/2 x 1 1/2 x 3/4 40 x 40 x 20	2 3/4 70	1.3 0.6
1 1/2 x 1 1/2 x 1 40 x 40 x 25	2 3/4 70	1.4 0.6
1 1/2 x 1 1/2 x 1 1/4 40 x 40 x 32	2 3/4 70	1.5 0.7
2 x 2 x 3/4 50 x 50 x 20	3 1/4 83	2.0 0.9
2 x 2 x 1 50 x 50 x 25	3 1/4 83	2.1 1.0
2 x 2 x 1 1/4 50 x 50 x 32	3 1/4 83	2.3 1.0
2 x 2 x 1 1/2 50 x 50 x 40	3 1/4 83	2.5 1.1
2 1/2 x 2 1/2 x 3/4 65 x 65 x 20	3 3/4 95	2.8 1.3
2 1/2 x 2 1/2 x 1 65 x 65 x 25	3 3/4 95	3.0 1.4
2 1/2 x 2 1/2 x 1 1/2 65 x 65 x 40	3 3/4 95	3.5 1.6
2 1/2 x 2 1/2 x 2 65 x 65 x 50	3 3/4 95	3.8 1.7
3 x 3 x 3/4 80 x 80 x 20	4 1/4 108	4.0 1.8
3 x 3 x 1 80 x 80 x 25	4 1/4 108	4.1 1.9
3 x 3 x 1 1/4 80 x 80 x 32	4 1/4 108	4.2 1.9
3 x 3 x 1 1/2 80 x 80 x 40	4 1/4 108	4.3 1.9
3 x 3 x 2 80 x 80 x 50	4 1/4 108	4.5 2.0
3 x 3 x 2 1/2 80 x 80 x 65	4 1/4 108	4.8 2.2
4 x 4 x 2 100 x 100 x 50	5 127	5.8 2.6
4 x 4 x 2 1/2 100 x 100 x 65	5 127	5.9 2.7
4 x 4 x 3 100 x 100 x 80	5 127	6.0 2.7
6 x 6 x 3 150 x 150 x 80	6 1/2 165	14.0 6.4
6 x 6 x 4 150 x 150 x 100	6 1/2 165	14.5 6.6
8 x 8 x 4 200 x 200 x 100	7 3/4 197	29.6 13.5
8 x 8 x 6 200 x 200 x 150	7 3/4 197	31.1 14.1

FIG. 7072SS

Stainless Steel Concentric Reducer
Type 316



**FIGURE 7072SS
STAINLESS STEEL CONCENTRIC REDUCER**

Nominal Size	End to End*	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1 1/2 x 1 40 x 25	6 1/2 165	0.7 0.3
1 1/2 x 1 1/4 40 x 32	6 1/2 165	0.7 0.3
2 x 1 50 x 25	7 178	0.9 0.4
2 x 1 1/4 50 x 32	7 178	0.9 0.4
2 x 1 1/2 50 x 40	7 178	1.2 0.5
2 1/2 x 1 65 x 25	7 1/2 191	1.1 0.5
2 1/2 x 1 1/2 65 x 40	7 1/2 191	1.2 0.5
2 1/2 x 2 65 x 50	7 1/2 191	1.2 0.5
3 x 1 80 x 25	7 1/2 191	1.8 0.8
3 x 1 1/4 80 x 32	7 1/2 191	1.8 0.8
3 x 1 1/2 80 x 40	7 1/2 191	1.9 0.9
4 x 2 100 x 50	8 203	2.9 1.3
4 x 2 1/2 100 x 65	8 203	3.1 1.4
4 x 3 100 x 80	8 203	3.1 1.4
6 x 2 1/2 150 x 65	9 1/2 241	7.1 3.2
6 x 3 150 x 80	9 1/2 241	7.0 3.2
6 x 4 150 x 100	9 1/2 241	7.0 3.2
8 x 4 200 x 100	10 254	11.7 5.3
8 x 6 200 x 150	10 254	11.5 5.2

- Notes:**
- 1) *Dimensions may differ from those shown above. Contact an Anvil Representative for more information.
 - 2) Fabricated fittings weights are based on Schedule 10 pipe.
 - 3) Fabricated Schedule 10, 316SS and Schedule 40 Center to End dimensions are the same.
 - 4) The pressure rating for the Gruvlok Schedule 10 Stainless Steel Fittings are equal to the pressure rating of the coupling used on Schedule 10 pipe as shown in the Working Pressure Ratings Chart for Stainless Steel Roll Grooved Pipe on page 3.
 - 5) The pressure rating for the reducing tees and concentric reducers should be based upon the dimension of the weakest end.

Gruvlok® Stainless Steel Fittings Type 316SS

FIG. 7073SS

Stainless Steel Eccentric Reducers
Type 316

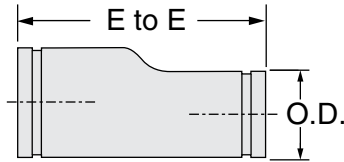


FIGURE 7073SS STAINLESS STEEL ECCENTRIC REDUCER		
Nominal Size	End to End*	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1½ x 1 40 x 25	8½ 216	1.7 0.8
1½ x 1¼ 40 x 32	8½ 216	4.5 2.0
2 x 1 50 x 25	9 229	2.2 1.0
2 x 1¼ 50 x 32	9 229	2.4 1.1
2 x 1½ 50 x 40	9 229	2.5 1.1
2½ x 1 65 x 25	9½ 241	3.2 1.5
2½ x 1½ 65 x 40	9½ 241	3.6 1.6
2½ x 2 65 x 50	9½ 241	4.0 1.8
3 x 1 80 x 25	9½ 241	4.0 1.8
3 x 1¼ 80 x 32	9½ 241	4.3 2.0
3 x 1½ 80 x 40	9½ 241	4.5 0.9
4 x 2 100 x 50	10 254	6.7 3.0
4 x 2½ 100 x 65	10 254	7.3 3.3
4 x 3 100 x 80	10 254	7.9 3.6
6 x 2½ 150 x 65	11½ 292	12.8 5.8
6 x 3 150 x 80	11½ 292	13.6 6.2
6 x 4 150 x 100	11½ 292	14.9 6.8
8 x 4 200 x 100	12 305	19.7 8.9
8 x 6 200 x 150	12 305	23.2 10.5

FIG. 7084SS

Groove x Class 150
Stainless Steel Flange Adapter
Type 304

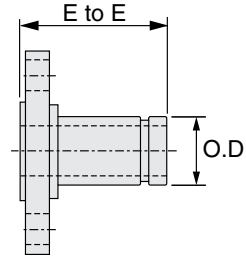


FIGURE 7084SS STAINLESS STEEL FLANGE ADAPTER		
Nominal Size	End to End*	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
2 50	3⅛ 79.38	5.7 2.6
2½ 65	3⅝ 85.73	8.6 3.9
3 80	3⅝ 85.73	9.7 4.4
4 100	3⅞ 90.49	14.6 6.6
5 125	3¾ 95.25	17.5 7.9
6 150	3⅞ 100.01	19.4 8.8
8 200	4½ 114.30	32.9 14.9
10 250	4¾ 120.65	45.0 20.4
12 300	4¾ 120.65	70.8 32.1

- Notes:**
- 1) *Dimensions may differ from those shown above. Contact an Anvil Representative for more information.
 - 2) Fabricated fittings weights are based on Schedule 10 pipe.
 - 3) Fabricated Schedule 10, 316SS and Schedule 40 Center to End dimensions are the same.
 - 4) The pressure rating for the Gruvlok Schedule 10 Stainless Steel Fittings are equal to the pressure rating of the coupling used on Schedule 10 pipe as shown in the Working Pressure Ratings Chart for Stainless Steel Roll Grooved Pipe on page 3.
 - 5) The pressure rating for the eccentric reducers should be based upon the dimension of the weakest end.



A Brand of Anvil International

Gruvlok® Stainless Steel Series 7500SS Grooved End Ball Valves

The Series 7500SS grooved-end ball valve line consists of a 2" to 6" standard port, two piece design, and is available in several configurations to address a broad spectrum of application requirements.

The Series 7500SS has generous factors of safety for pressure retention and stem torsional strength. In addition, it has a blow-out proof stem design, low operating torque, and high Cv.

The Series 7500SS is compliant with NACE MR01-75 when stainless steel trim is specified.



The all stainless steel valve incorporates additional features for more demanding applications. These valves include standard reinforced PTFE seats, live loaded PTFE chevron stem seals, and lock-out provisions. These options are available on the Ductile Iron valve on special order.

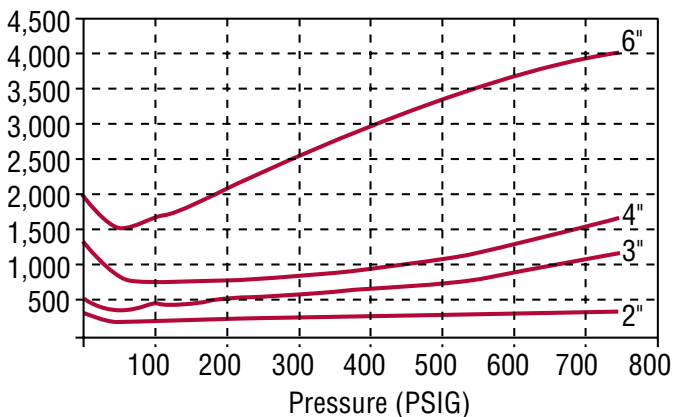
Performance:

Pressure Ratings:

740 psig CWP in ASTM A395 Ductile Iron

720 psig CWP in ASTM A351 CF8M Stainless Steel

Figure 7500SS Ball Valve – Operating Torque (in-lbs)



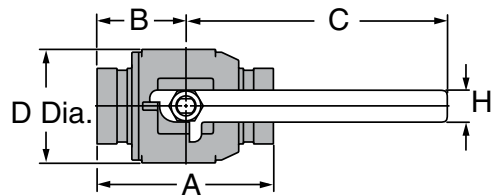
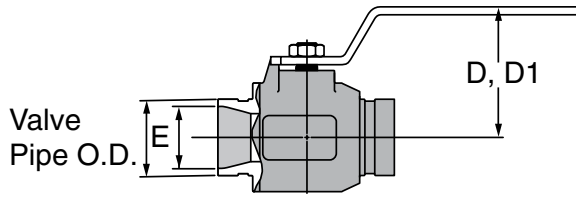
This Graph has safety factors and curve straightening included

MATERIAL SPECIFICATIONS

Description	Material (DI/CS)	Material (DI/SS)	Material (SS/SS)
Body, Endplate	Ductile Iron ASTM A395		Stainless Steel ASTM A351 CF8M
Ball, Stem	Carbon Steel Chrome Plated	316 Stainless Steel	
Thrust Washer	RTFE		
Stem Seal	Flouroelastomer		PTFE Chevron
Retaining	Carbon Steel	300 Series Steel	
Ring	Oxide Coated	—	
Handle	Carbon Steel – Zinc Plated		
Handle Nut	Carbon Steel Zinc Plated	300 Series Stainless Steel	
Seat	RTFE		
Body Seal	Flouroelastomer		
Lock Plate, Lock Stop, Follower, Packing Nut, Belleville Washer	—		300 Series Stainless Steel 17-7 Stainless Steel

Gruvlok® Stainless Steel Series 7500SS Grooved End Ball Valves

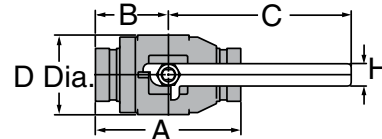
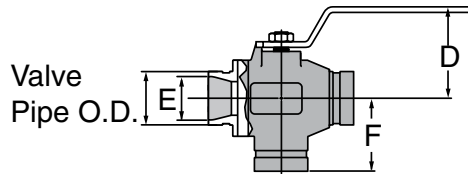
TWO-WAY VALVES



TWO-WAY VALVES									
Size ANSI	Pipe O.D.	Dimensions							Approx. Wt. Ea.
		A	B	C	D	D1*	E	Cv	
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
2	2.375	5.50	2.75	8.22	4.13	4.79	1.50	165	7.2
50	60.3	140	70	209	105	122	38		15.8
3	3.500	6.71	3.35	10.03	4.78	5.55	2.25	310	15.4
80	88.9	170	85	255	121	141	57		33.9
4	5.562	8.25	4.13	16.00	6.13	7.43	3.00	815	34.9
100	114.3	210	105	406	156	189	76		76.8
6	6.500	10.10	5.05	28.00	7.64	8.64	4.38	1500	78.1
150	168.3	257	128	711	194	220	111		121.8

* D1 for Stainless Steel.

THREE-WAY DIVERTER VALVES



THREE-WAY DIVERTER VALVES									
Size ANSI	Pipe O.D.	Dimensions							Approx. Wt. Ea.
		A	B	C	D	E	F	Cv	
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
2 RP	2.375 RP	6.50	3.25	8.22	4.13	1.50	3.25	36	9
50	60.3	165	83	209	105	38	83		19.8
2 FP	2.375 FP	6.50	3.25	10.38	5.38	2.00	3.25	135	14.2
50	60.3	165	83	264	137	51	83		31.2

GRUVLOK BALL VALVES SERIES 7500SS (STAINLESS STEEL ORDERING INFORMATION)

Sample Part Number	4"	G	S-	75	2	2-	1
4" GS-7522-1	Size 2" - 6"	Configuration G - 2 way Grooved End D - 3 Way Diverter, Grooved End Standard Port (2") F - 3 Way Diverter, Grooved End Full Port (2")	Body/End Material I - Ductile Iron ASTM A395 S - Stainless Steel ASTM A351 Grade CF8M	Series 75 - 7500	Ball and Stem Material 1 - Chrome Plated Carbon Steel 2 - 316 Stainless Steel	Seat/Seats 2 - RTFE/Flouroelastomer	Operator 1 - 2 Position Handle 2 - 2 Position Locking Handle 3 - Bare Stem

Special Requests:
X - Write on order

Anvil Hangers and Supports



Anvil Pipe Hangers and Supports

The present line of Anvil pipe hangers and supports is the result of a century of experience in the industrial piping field. Anvil's extensive line includes hangers and supports for any suspension problem encountered in pipe installation work. Refer to the Pipe Hanger Catalog (item #165) for more information.



Strut and Strut Fittings Continuous Metal Framing

Anvil-Strut offers a complete line of continuous slot metal framing complete with channels, fittings and accessories for any framing or support problem...large or small, heavy or light.

Anvil-Strut's offering comes complete with exacting standards of research, design, engineering and manufacturing. Maximum recommended load ratings for channels have been established through testing and are based on allowable stresses applicable to strut material specifications.

Beyond the versatility that strut and strut fittings offer as a basic building material, metal framing is popular for more exotic applications such as clean rooms, satellite dish supports, x-ray supports, storage racks, theater screens, tunnel stanchions and offshore catwalks. Refer to the Anvil-Strut Catalog (item #555) for more information.



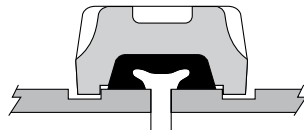
Gruvlok Gasket-Styles

Gruvlok offers a variety of pressure responsive gasket styles. Each serves a specific function while utilizing the same basic sealing concept. Proper installation of the gasket compresses the inclined gasket lips on the pipe O.D., forming a leaktight seal. This sealing action is reinforced when the gasket is encompassed and compressed by the coupling housings. The application of internal line pressure energizes the elastomeric gasket and further enhances the gasket sealing action.



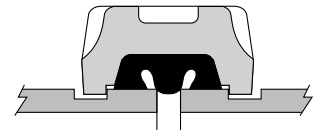
“C” STYLE

The “C” Style cross section configuration is the most widely used gasket. It is the gasket style provided as standard in many Gruvlok Couplings (Fig. 7400SS, 7000, 7001, 7003, 7004HPR, 7307, 7400 and 7401). Grade “E” and “T” are standard grades while other grades are available for special applications.



FLUSH GAP®

Designed to prohibit contaminants from building up in the gasket cavity. The centering rib fits flush over the gap between the two pipe ends thus closing off the gasket cavity. It can be used with Fig. 7400SS, 7000, 7001, 7003, 7004, 7400 and 7401 Couplings for many applications. Recommended for use in dry fire protection systems. Not recommended for use at temperatures above 160°F.



Gasket Grade Index

STANDARD GASKETS				
Grade	Temp. Range	Compound	Color Code	General Service Applications
E	-40°F to +230°F (-40°C to 110°C)	EPDM	Green	Water, dilute acids, alkalis, salts, and many chemical services not involving hydrocarbons, oils, or gases. Excellent oxidation resistance. NOT FOR USE WITH HYDROCARBONS
T	-20°F to +180°F (-29°C to 82°C)	Nitrile (Buna-N)	Orange	Petroleum products, vegetable oils, mineral oils, and air contaminated with petroleum oils. NOT FOR USE IN HOT WATER SERVICES

SPECIAL GASKETS				
Grade	Temp. Range	Compound	Color Code	General Service Applications
O	+20°F to +300°F (-20°C to 149°C)	Fluoro Elastomer	Blue	High temperature resistance to oxidizing acids, petroleum oils, hydraulic fluids, halogenated, hydrocarbons and lubricants
L	-40°F to +350°F (-40°C to 177°C)	Silicone	Red Gasket	Dry, hot air and some high temperature chemical services.

Gasket Recommendation Listing

WATER & AIR	
Service	Gasket Grade
Air, (no oil vapors) Temp. -40°F to 230°F (-40°C to 110°C)	E
Air, (no oil vapors) Temp. -40°F to 350°F (-40°C to 177°C)	L
Air, Oil vapor Temp. -20°F to 150°F (-29°C to 66°C)	T
Air, Oil vapor Temp. 20°F to 300°F (7°C to 149°C)	O
Water, Temp to 150°F (66°C)	E/T
Water, Temp to 230°F (110°C)	E
Water, Acid Mine	E/T
Water, Chlorine	(E/O)
Water, Deionized	E/T
Water, Seawater	E/T
Water, Waste	E/T
Water, Lime	E/T

Where more than one gasket grade is shown the preferred gasket grade is listed first. Where the gasket grade is shown in parentheses, Contact an Anvil Representative for an engineering evaluation and recommendation. Specify gasket grade when ordering. Use Gruvlok lubricant on gasket. Check gasket color code to be certain it is recommended for the service intended.

PETROLEUM PRODUCTS	
Service	Gasket Grade
Crude Oil - Sour	T
Diesel Oil	T
Fuel Oil	T
Gasoline, Leaded	T
Gasoline, Unleaded*	(O)
Hydraulic Oil	T
JP-3, JP-4 and JP-5	T/O
JP-6, 100°F (38°C) Maximum Temp.	O
Kerosene	T
Lube Oil, to 150°F (66°C)	T
Motor Oil	T
Tar and Tar Oil	T
Transmission Fluid —Type A	O
Turbo Oil #15 Diester Lubricant	O

Unless otherwise noted, all gasket listings are based upon 100°F (38°C) maximum temperature service conditions.

For services not listed, contact an Anvil Representative for recommendation.

*Contact Anvil for service evaluation.

Roll Groovers

Save time and money with fast, accurate and repeatable grooves

The Gruvlok Model 1007 and Model 3007 Roll Groovers utilize an advanced zero maintenance design for a more efficient, safer and easier roll grooving job. The hands clear design and foot switch operation allows for safe roll grooving of pipe sizes from 2" through 16" with lengths from 5" to 20 feet. Quick and simple to set-up, roll grooving is now user friendly. Call your Anvil Sales Representative for a roll grooving demonstration.

MODEL 1007 ROLL GROOVER



MODEL 3007 ROLL GROOVER



Optional Equipment:

- 2"-6" Gruvlok Advanced Copper Method Grooving Assembly with grooving rolls, M&L Adv. Copper Method Guide Roll Assembly, and a 2"-6" Universal Groove Diameter Gauge.
- 8" Gruvlok Advanced Copper Method Assembly with grooving rolls, hydraulic copper guide roll unit suitable for K, L, M, and DWV tubing, and an 8" Universal Diameter Gauge.
- 2"-6" Type K Advanced Copper Method Guide Roll Assembly
- 3"-6" Type DWV Advanced Copper Method Guide Roll Assembly
- 2"-8" Gruvlok CTS Copper System Grooving Rolls and Depth Gauges.
- 2"-12" Schedule 10 Grooving Rolls: Consisting of 2"-6" and 8"-12" roll sets.
- 14"-16" Grooving Rolls (Model 1007 only)
- Optional 230 volt, 60Hz, 15 amp, single phase electrical panel with motor is available for the 1007 Roll Groover.

Features:

- **WIDE GROOVING RANGE**
2" thru 16" standard wall & schedule 10 steel pipe, 2" thru 12" Schedule 10S and 40S Stainless Steel and 2" thru 8" copper tube type K, L, M, and DWV. (Adv. Copper Method or CTS Copper System)
- **PIPE LENGTHS**
20' random schedule 40 (standard wall) to 5" groove by groove nipples. The shortest roll groove nipple capability in the industry; hands-clear operation.
- **HANDS CLEAR GROOVING OF PIPE AND NIPPLES**
Enhanced operator safety provided by outboard guide roll assembly.
- **ACCURATE, REPEATABLE-GROOVE DIAMETER CONTROL**
Simplified direct action design provides positive, repeatable, control.
- **USER FRIENDLY DESIGN**
Pump location is adjustable for operator comfort and safety.
- **FAST GROOVING TIMES**
Large capacity two-stage pump. Two-stage design saves time engaging pipe while providing smooth application of optimum grooving force with reduced operator effort.
- **BETTER CONTROL OF PIPE FLARE**
Outboard guide roll assembly registers pipe for proper orientation.
- **QUICK, EASY SETUP AND ROLL CHANGE**
- **RUGGED DESIGN REQUIRES ZERO MAINTENANCE**
Sealed bearings eliminate need for periodic maintenance.
- **EASE OF OPERATION**
High grooving forces obtained through use of larger capability ram requires less pump effort.
- **FOOT SWITCH POWER APPLICATION**
- **OPERATOR SAFE DESIGN**



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Sparks, NV 89431

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BUILDING CONNECTIONS THAT LAST

