Grooved Stainless Steel Piping System

SPECIFICATIONS:

PIPING shall be schedule 10 – Grade 304 Stainless Steel.

FITTINGS shall be cast stainless steel with dimensions and pressure ratings as shown below. Note that pressure rating table is based on S10 Stainless Pipe.

COUPLINGS shall be Fig. 7400 ductile iron Rigidlite Coupling from Gruvlok specially designed to provide a rigid, locked-in pipe connection. Joint shall be swing-over installation. The Fig. 7400 Rigidlite Coupling is UL/ULC Listed and FM Approved for 300 psi (20.7 bar)

BOLTS AND HEX NUTS shall be ANSI heat treated, oval neck track head bolts conforming to ASTM A183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A563. Bolts and nuts are zinc electroplated.

COATING on couplings shall be rust inhibiting lead-free blue paint.

GASKETS shall be Grade "E" EPDM (Green color code) NSF-61 Certified -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. Grade "E" gaskets are not for use in petroleum applications. All water contact parts are stainless steel or gasket material.

FIGURE 7400 RIGIDLITE COUPLING												
Nominal		Hax. Wk.	Hax. End	Range of			Coupling Bolls	Specified Torque §		Approx.		
Size	0.0.	Pressure	Load	Pipe End Separation	х	Υ	Z	Oty.	Size	Min.	Max.	Wt. Ea.
ia./DN(mm)	la./mm	PSI/bar	Lbs./kN	lo./mm	la./mm	la./mm	la./mm		In./mm	RLb	s./H-M	Lbs/Kg
1	1.315	300	407	0 -1%	21/4	41/2	1%	2	% x 21/4	30	45	1.2
25	33.4	20.7	1.81	0-3.2	57	114	44		M10 x 57	40	60	0.5
11/4	1.660	300	649	0 -1%	2%	4%	1%	2	% x 2 ¹ / ₄	30	45	1.3
32	422	20.7	2.89	0-3.2	67	121	44		M10 x 57	40	60	0.6
11/2	1.900	300	851	0 -1%	21/6	4%	1%	2	% x 2 ¹ / ₄	30	45	1.4
40	48.3	20.7	3.78	0-3.2	73	124	44		M10 x 57	40	60	0.6
2	2.375	300	1,329	0 -1/6	31/4	51/2	1%	2	% x 21/4	30	45	1.6
50	60.3	20.7	5.91	0-3.2	83	140	44		M10 x 57	40	60	0.7
21/2	2.875	300	1,948	0 -1%	3%	6	134	2	% x 21/4	30	45	1.9
85	73.0	20.7	8.66	0-3.2	98	152	44		M10 x 57	40	60	0.9
3 O.D.	2.996	300	2,115	0-%	4	5%	1%	2	26×2'4	30	45	1.9
76.1	76.1	20.7	9.41	0 - 3.2	102	149	44		M10 x 57	40	60	0.9
3	3.500	300	2,886	0-1/6	41/2	6%	1%	2	% x 2%	30	45	2.1
.90	88.9	20.7	12.84	0-3.2	114	171	44		MIO x 70	40	60	1.0
4	4.500	300	4,771	0 -1/4	5%	73/4	1%	2	% x 2%	30	45	3.1
100	114.3	20.7	21.22	0-6.4	143	197	48		M10 x 70	40	60	1.4
5% O.D.	5.500	300	7,127	0-14	8%	9%	2	2	1/6×3	.90	100	4.5
139.7	139.7	20.7	31.70	0 - 6.4	171	235	51		M12 x 76	110	150	2.0
5	5.563	300	7,292	0-1/4	6%	91/4	2	2	½×3	80	100	4.6
125	141.3	20.7	32.44	0-6.4	175	235	51		M12 x 76	110	150	2.1
6½0.D.	6.500	300	9,955	0-14	7%	10%	2	2	16x3	80	100	5.5
165.1	165.1	20.7	44.28	0 - 6.4	200	264	51		M12 x 76	110	150	2.5
6	6.625	300	10,341	0-1/4	7%	10%	2	2	1/2 x 3	80	100	5.5
150	168.3	20.7	46.00	0-6.4	200	264	51		M12 x 76	110	150	2.5
8	8.625	300	17,528	0 -1/6	101/4	129/4	2%	2	1/2 x 3	80	100	8.4
200	219.1	20.7	77.97	0-3.2	260	324	60		M12 x 76	110	150	3.8



CAT371.2

FITTINGS



FIGURE 7050SS							
90° Stainless Steel Elbow							
Nominal Size	Center to End	Approx. Wt. Ea.					
In./DN (mm)	In./mm	Lbs./Kg					
11/4	37/8	1.2					
32	98	0.5					
11/2	41/4	1.4					
40	108	0.6					
2	43/8	2.3					
50	111	1.0					
21/2	53/4	3.3					
65	146	1.5					
3	57/8	4.6					
80	149	2.1					
4	71/2	7.9					
100	191	3.6					
6	103/4	17.0					
150	273	7.7					
8	15	29.4					
200	381	13.4					

NOTE: Fabricated fittings weights are based on Schedule 10 pipe.



Figure 7051SS							
45° Stainless Steel Elbow							
Nominal Size	Center to End	Approx. Wt. Ea.					
In /DN(mm)	In /mm	Lbs/Kg					
11/4	21/2	0.7					
32	64	0.3					
11/2	21/2	0.9					
40	64	0.4					
2	21/2	1.5					
50	64	0.7					
21/2	3	1.9					
65	76	0.9					
3	33%	3.3					
80	86	1.5					
4	4	5.4					
100	102	2.4					
6	51/2	11.2					
150	140	5.1					
8	71/4	19.8					
200	184	9.0					

NOTE: Fabricated fittings weights are based on Schedule 10 pipe.

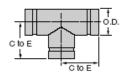


FIGURE 7060SS						
STAINLESS STEEL TEE						
Nominal	Center	Approx.				
Size	to End	Wt. Ea.				
In./DN(mm)	In./mm	Lbs./Kg				
11/4	234	1.5				
32	70	0.7				
11/2	23/4	1.8				
40	70	0.8				
2	31/4	2.4				
50	83	1.1				
21/2	334	4.0				
65	95	1.8				
3	41/4	5.8				
80	108	2.6				
4	5	10.3				
100	127	4.7				
6	61/2	25.7 11.7				
150	165					
8	7%	41.1				
200	197	18.6				

NOTE: Fabricated fittings weights are based on Schedule 10 pipe.



FIGURE 7074SS Stainless Steel Caps						
Nominal Size	End to End	Approx. Wt. Ea.				
In./DN (mm)	In./mm	Lbs./Kg				
11/4	15/8	0.4				
32	41	0.2				
11/2	1%	0.5				
40	41	0.2				
2	15/8	0.8				
50	41	0.4				
21/2	134	1.1				
65	45	0.5				
3	134	1.6				
80	45	0.7				
4	134	2.8				
100	45	1.3				
6	17/8	7.1				
150	48	3.2				
8	21/4	14.9				
200	57	6.8				

NOTE: Pressure and load ratings equal to or greater than Schedule 10S as listed above. Caps are all cast fittings.

	Size								
		11/4"	11/2*	2*	21/2*	3.	4"	6"	8.
Ī	Schedule 10S								
	Pressure	275	275	275	275	275	275	250	200
	End Load	595	780	1,218	1,785	2,646	4,374	8,618	11,685

Brine line piping shall be 1 $\frac{1}{2}$ " threaded schedule 40 – 304 stainless steel. The ball valve and check valve on the brine line shall be threaded 1 $\frac{1}{2}$ " brass.

FIG. 7400 Rigidlite® Coupling

