

Performance Data Sheet – Stainless Steel Couplings on Stainless Steel Pipe

The following tables show maximum cold working pressures (CWP) of **Shurjoint** stainless steel couplings used on stainless steel pipes.

In general it is more difficult to achieve defined groove corners on stainless steel pipe than on carbon steel pipe. Always select the correct roll set for the pipe being grooved and process grooves as defined as possible. Contact your roll-groove tool manufacturer for recommendations.

Model SS-7X Rigid Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
10	600	600	300	200
250	42	42	20	14
12	600	600	300	200
300	42	42	20	14
14	400	400	300	200
350	28	28	20	14
16	400	400	300	200
400	28	28	20	14
18	350	350	300	200
450	24	24	20	14
20	350	350	300	200
500	24	24	20	14
22	300	300	300	200
550	20	20	20	14
24	300	300	300	200
600	20	20	20	14

Model SS-7 Rigid Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1¼	750	750	500	200
32	52	52	35	14
1½	750	750	500	200
40	52	52	35	14
2	600	600	500	200
50	42	42	35	14
2½	600	600	500	200
65	42	42	35	14
3	600	600	500	200
80	42	42	35	14
4	600	600	400	200
100	42	42	28	14
5	600	600	350	200
125	42	42	24	14
6	600	600	300	200
150	42	42	20	14
8	600	600	300	200
200	42	42	20	14

Model SS-5 Rigid Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1¼	600	600	300	200
32	42	42	20	14
1½	600	600	300	200
40	42	42	20	14
2	600	600	300	200
50	42	42	20	14
2½	600	600	300	200
65	42	42	20	14
3	600	600	300	200
80	42	42	20	14
4	600	600	300	200
100	42	42	20	14
5	600	600	300	200
125	42	42	20	14
6	600	600	300	200
150	42	42	20	14
8	600	600	300	200
200	42	42	20	14

Model SS-8 Flexible Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1	500	500	450	225
25	35	35	31	16
1¼	500	500	450	225
32	35	35	31	16
1½	500	500	450	225
40	35	35	31	16
2	500	500	450	225
50	35	35	31	16
2½	500	500	450	225
65	35	35	31	16
3	500	500	450	225
80	35	35	31	16
4	425	425	400	200
100	29	29	28	14
5	425	425	400	125
125	29	29	28	9
6	425	425	400	125
150	29	29	28	9
8	300	300	200	125
200	20	20	14	9

Model SS-1200 High Pressure Flexible Coupling

Nom. Size in / mm	Cut-Grooved	
	Sch. 80S	Sch. 40S
in	psi	psi
mm	Bar	Bar
¾	1200	1200
20	83	83
1	1200	1200
25	83	83
1¼	1200	1200
32	83	83
1½	1200	1200
40	83	83
2	1200	1200
50	83	83
2½	1200	1200
65	83	83
3	1200	1200
80	83	83
4	1200	1200
100	83	83

Burst pressure: 2 times the listed working pressure.

Model SS-8X Heavy Duty Flexible Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
¾	750	750	500	200
20	52	52	35	14
1	750	750	500	200
25	52	52	35	14
1¼	750	750	500	200
32	52	52	35	14
1½	750	750	500	200
40	52	52	35	14
2	750	750	500	200
50	52	52	35	14
2½	750	750	500	200
65	52	52	35	14
3	750	750	500	200
80	52	52	35	14
4	750	750	400	200
100	52	52	28	14
5	750	750	400	200
125	52	52	28	14
6	500	500	400	200
150	35	35	28	14
8	425	425	300	200
200	29	29	20	14

Model SS-28 Hinged Lever Coupling

Nom. Size	Cut-Grooved		Roll-Grooved	
	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar
1½	300	300	300	200
40	20	20	20	14
2	300	300	300	200
50	20	20	20	14
2½	300	300	300	200
65	20	20	20	14
3	300	300	300	200
80	20	20	20	14
4	300	300	300	200
100	20	20	20	14
5	200	200	200	125
125	14	14	14	9
6	200	200	200	125
150	14	14	14	9

Notes:

1. Pressure ratings listed are based on tests on pipe prepared in accordance with ANSI/AWWA C606 groove specifications.
2. Listed pressures are the maximum line pressure including surge to which a joint is subjected.
3. Burst test pressures are minimum 3 times the maximum working pressures unless otherwise specified.