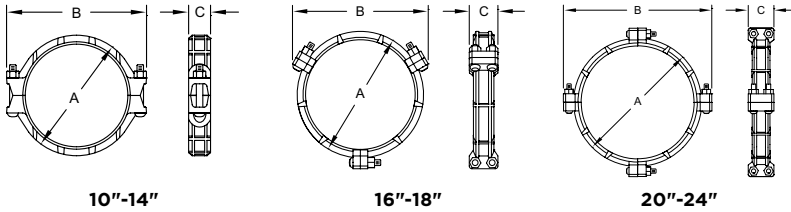




always fasten the bolts to the required torque.

job name:	
job location:	
engineer:	
contractor:	
tag:	
po#:	
rep:	
wholesale dist.:	



the model SS-7X stainless steel rigid coupling is a tongue and groove rigid coupling designed to provide a rigid joint for stainless steel pipe in size 10" through 24". the SS-7X is supplied standard in CF8 (304) and CF8M (316) with 304 and 316 bolts and nuts. as an option this coupling can be supplied with small triangular teeth inside the key shoulder to prevent the pipe or component from rotating.

dimensions

NOMINAL SIZE	PIPE O.D.	MAX. WORKING PRESSURE (CWP)*	MAX. END LOAD (CWP)	AXIAL DISPLACEMENT †	DIMENSIONS			BOLT		BOLT TORQUE	WEIGHT
					A	B	C	SIZE	No.		
in	in	PSI	lb	in	in	in	in	No.	in	lb-Ft	lb
mm	mm	Bar	kN	mm	mm	mm	mm			Nm	kg
10	10.750	600	54430	0-0.13	12.52	15.98	2.56	2	7/8 x 6-1/2	105 - 175	23.1
250	273.0	42	239.87	0-3.2	318	406	65			145 - 235	10.5
12	12.750	600	76567	0-0.13	14.72	17.78	2.56	2	7/8 x 6-1/2	105 - 175	23.3
300	323.9	42	337.66	0-3.2	374	452	65			145 - 235	11.5
14	14.000	400	61544	0-0.13	15.63	19.69	2.95	2	7/8 x 6-1/2	105 - 175	33.0
350	355.6	28	277.94	0-3.2	397	500	75			145 - 235	15.0
16	16.000	400	80384	0-0.13	18.15	21.10	2.95	6	5/8 x 3-1/2	50 - 75	42.7
400	406.4	28	363.02	0-3.2	461	536	75			68 - 100	19.4
18	18.000	350	89019	0-0.13	20.24	23.11	2.95	6	5/8 x 3-1/2	50 - 75	55.0
450	457.2	24	393.82	0-3.2	514	587	75			68 - 100	25.0
20	20.000	350	109900	0-0.13	22.48	26.34	3.11	8	3/4 x 4-3/4	65 - 150	72.8
500	508.0	24	486.19	0-3.2	571	669	79			85 - 200	33.1
22	22.000	300	113982	0-0.13	24.49	28.35	3.11	8	3/4 x 4-3/4	65 - 150	72.6
550	558.8	20	490.24	0-3.2	622	720	79			85 - 200	33.0
24	24.000	300	135648	0-0.13	26.47	30.35	3.11	8	3/4 x 4-3/4	65 - 150	76.3
600	609.6	20	583.43	0-3.2	673	771	79			85 - 200	34.7

**the working pressure shown is based on roll-grooved Sch. 40S pipe.

† allowable axial displacement and angular movement (deflection) figures are for roll grooved standard steel pipe. values for cut grooved pipe will be double that of roll grooved. these values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4"/DN20 - 3-1/2"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

material specifications

housing:

- type 304 stainless steel to ASTM A351 CF8 or A743 Gr. CF8
- type 316 to ASTM A743 CF8M
- type 316L to ASTM A743 CF3M
- type 316Ti to ASTM A240
- duplex 2205 to ASTM A890 4A
- super duplex 2507 to ASTM A890 5A
- duplex 254SMO to ASTM A351 CK3McuN

rubber gasket:

grade "E-pw" EPDM (color code: double green stripe)

- good for cold & hot water up to +230°F (+110°C). also good for services for water with acid, water with chlorine, chloramine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.
- good for cold +86°F (+30°C) and hot +180°F (+82°C) potable water services. EPDM is UL classified per NSF/ANSI 61 & NSF/ANSI 372.
- **not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**
- maximum temperature range: -30°F (-34°C) to +230°F (+110°C).

*EPDM gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket replacement.

(option) grade "T" nitrile (color code: orange stripe)

- recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. also good for water services under +150°F (+66°C)
- hot dip zinc galvanized (Optional). temperature range: -20°F to +180°F (-29°C to +82°C)
- **do not use for hot water above +150°F (+66°C) or hot dry air above +140°F (+60°C).**

other options

grade "O" - fluoroelastomer

grade "L" - silicone

- for additional details contact Shurjoint.

bolts & nuts:

- type 304 Stainless steel track bolts to A193 B-8 with heavy duty nuts to ASTM A194 B8, molybdenum disulfide (MoS₂) coated.
- type 316 stainless steel track bolts to A193 B-8M with heavy duty nuts to ASTM B8M, molybdenum disulfide (MoS₂) coated.

performance data

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.

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	41.37	20.68	14
12	600	600	300	200
300	42	41.37	20.68	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

proof test pressure: 1.5 times the listed working pressure.
burst pressure: 3 times the listed working pressure.

general notes

- maximum working pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. for other pipe schedules or pipe materials, contact Shurjoint for additional information.
- max. end load is calculated based on the maximum working pressure (CWP).
- field joint test: for one time only the system may be tested hydrostatically at 1.5 times the maximum working pressure listed (AWWA C606 5.2.3).
- warning: piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- the 10 year limited warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.