

Grooved Pipe Trench Coupling Installation Instruction Manual

This installation instruction for pipe joints applies to all applications of Resafe Environmental Technology – ReSafe brand stainless steel joints, including RS-L, RS-M, RS-H, and RS-SH series. When placing an order, please select the appropriate product model based on your actual pressure rating requirements or refer to the Resafe Environmental Technology product catalog. For easy identification, the sealing ring of *ReSafe* is clearly marked with its model, specifications, material, etc.



1、Ensure the pipe ends are free of burrs to prevent potential damage to the rubber sealing ring upon installation.



2、Apply a suitable lubricant evenly on the pipe's sealing surface and the sealing ring.



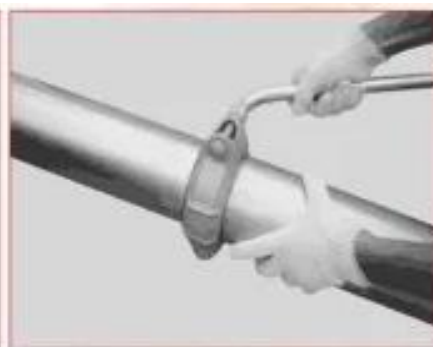
3、Fit the seal onto the pipe end.



4、Engage the opposing pipe terminal with the sealing ring, maintaining the ring's position at the midpoint of the connection interface.



5、Position the grooved fitting over the seal's outer edge, then finger-tighten all fasteners (Note: Lubricate stainless threads prior to assembly).



6、Use a torque wrench to tighten the fasteners to the prescribed values listed in the torque table.

Sealing Ring Material Recommendation-E

Grade	Material	Color	Min TEMP	MAX TEMP	Applocation
F1	FKM	Brown	-20℃	160℃	Oil, Oily Air
F	FKM	Black with White Line	-30℃	200℃	Oil, Oily Air
Q1	Q	Light Green	-70℃	235℃	Oil Free Air
Q2	Q	Purplish Red	-70℃	177℃	Hot and Cold Water Oil Free Air
Q3	Q	Milky White	-70℃	135℃	Drinking Water and Food Industry
Q4	Q	Grey	-70℃	280℃	Oil Free Air
E	EPDM	Black	-35℃	110℃	Water Pipe
C	CR	Black with Red Line	-35℃	120℃	Sea Water, Acid-base
F1	EPDM	Black with	-45℃	110℃	Antifreeze Chemicals ¹

Bolt & Nut Installation Torque Table

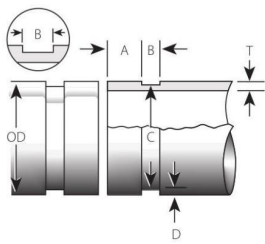
Specific ations	Torque Value
mm	N. m
M10	30-40
M12	60-80
M16	80-120
M20	180-220

Warning

Correct selection of seal type and material at the time of ordering is critical to ensure reliable performance in diverse operating conditions and to maximize the product's service life.

Regarding applications with particular chemical substances or temperature requirements, contact Resafe Environmental Technology for material compatibility verification.

Improper seal specification can result in safety hazards (including personal harm), asset loss, installation faults, leakage at joints, and ultimately system disconnection.



Professional short tube for membrane water treatment								
The international standard specification for grooved pipes								
Specification	basic dimension		A(mm) Sealing ring dimension	B(mm) Groove width	Groove pipe dimension			T(mm) Pipe wall thickness
	OD	Tolerance(mm)			Diameter (mm)	Tolerance (mm)	Depth (mm)	
DN20	26.9	±0.25	15.88	7.95	23.83	-0.38	1.42	2.87
DN25	32	±0.33	15.88	7.95	28.9	-0.38	1.60	3.38
DN25	33.7	±0.33	15.88	7.95	30.23	-0.38	1.60	3.38
DN32	38	±0.41	15.88	7.95	34.8	-0.38	1.60	3.56
DN32	42.4	±0.41	15.88	7.95	38.99	-0.38	1.60	3.56
DN40	48.3	±0.48	15.88	7.95	45.09	-0.38	1.60	3.68
DN50	57	±0.61	15.88	7.95	53.85	-0.38	1.60	3.91
DN50	60.3	±0.61	15.88	7.95	57.15	-0.38	1.60	3.91
DN65	73	±0.74	15.88	7.95	69.09	-0.46	1.98	4.78
DN65	76.1	±0.74	15.88	7.95	72.26	-0.46	1.98	4.78
DN80	88.9	+0.89, -0.79	15.88	7.95	84.94	-0.46	1.98	4.78
DN100	108	+0.89, -0.79	15.88	9.53	103.73	-0.51	2.11	5.16
DN100	114	+0.89, -0.79	15.88	9.53	110.08	-0.51	2.11	5.16
DN125	133	+1.0, -0.79	15.88	9.53	129.13	-0.51	2.11	5.16
DN125	139.7	+1.0, -0.79	15.88	9.53	135.5	-0.51	2.11	5.16
DN125	141.3	+1.0, -0.79	15.88	9.53	137.03	-0.51	2.13	5.16
DN150	159	+1.0, -0.79	15.88	9.53	154.5	-0.56	2.16	5.56
DN150	168.3	+1.60, -0.79	15.88	9.53	163.96	-0.56	2.16	5.56
DN200	219.1	+1.60, -0.79	19.05	11.13	214.4	-0.64	2.34	6.05
DN250	273	+1.60, -0.79	19.05	12.7	268.28	-0.69	2.39	6.35
DN300	323.9	+1.60, -0.79	19.05	12.7	318.29	-0.76	2.77	7.09

Refer to Resafe Environmental Technology for complete groove specifications beyond standard ranges.



WhatsApp

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