GroovJoint™

Stainless Steel Grooved Fittings & Press Fittings

PRODUCT CATALOG

Company Profile

SINCE 2003: A COMMITMENT TO COMPLETE CUSTOMER SATISFACTION

In the ever-evolving world of construction management, there are always new and innovative companies that come to market to safely reduce project costs and reduce lead time. From day one, GroovJoint LLC has aimed to make this become a reality in the stainless steel piping industry. Founded on core values to deliver a combination of product value, quality, customer service, and innovation, GroovJoint continues to follow this philosophy for customer success.

Our sales office is headquartered in Green Bay, Wisconsin. Our Midwestern United States production and warehouse teams are made up of hard-working men and women who take pride in the quality product we provide. We also rely on many other domestic manufacturing companies throughout the continental US for their quality raw materials and services.

Since our beginning in 2003, we have experienced constant year over year growth. This is a testament to not only the quality of the product we provide, but also the quality of our people who interact with and serve our customers on a daily basis. We have also prioritized the continual search to ensure we can produce our quality product in the most lean and equitable way in order to compete and grow on the global scale.

With over 100 years of experience in the piping industry, our management team has a deep knowledge base on the product we offer. Since we only work with stainless steel, it has allowed us to become experts on the product. We leverage our expertise to constantly evaluate our performance and investigate new ways to improve through collaboration with our suppliers.

GroovJoint and our employees believe in these four principles:
1. Service. Our primary mission is to serve the customer.
2. Quality. We refuse to offer anything less than the best.
3. Value. All of our offerings must remain competitively priced.
4. Knowledge. Continual improvement to stay on the cutting edge.

These principles are the foundation of our company and are what our customers can rely on to complete their projects on time and under budget.

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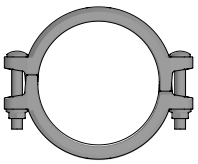
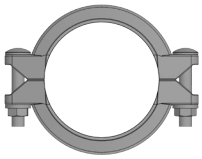
Stainless Steel Grooved System

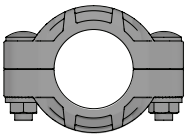
Model 24
Pages 6-9
Rigid Coupling



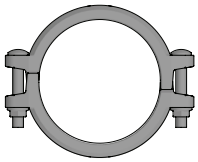
Model 15
Pages 10-11
Flexible Coupling



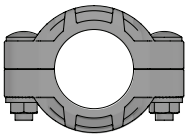
Model 15X
Pages 12-13
Heavy-Duty
Flexible Coupling



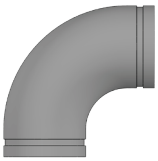
Model GT
Pages 14-15
Galvanized Ductile
Iron Rigid Coupling



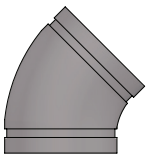
Model 76DU
Pages 16-17
Duplex Heavy-Duty
Flexible Coupling



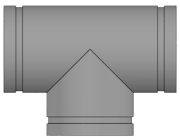
Model 469
Page 19
90° Elbow



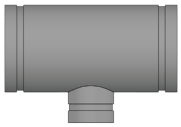
Model 464
Page 20
45° Elbow



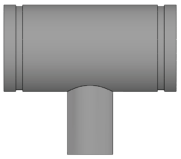
Model 46T
Page 21
Tee



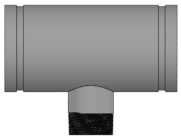
Model 46RT
Pages 22-23
Reducing Tee



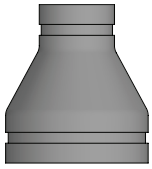
Model 46RTS
Page 24
Reducing Tee
Groove x Press



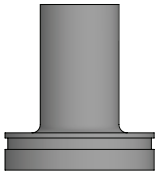
Model 46RTST
Page 25
Reducing Tee
Groove x MNPT



Model 46C
Pages 26-27
Concentric
Reducer

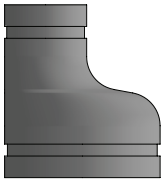


Model 46CS
Page 28
Concentric Reducer
Groove x Press

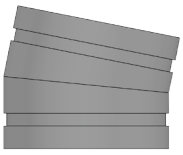


Model 46CMT
Page 29
Concentric Reducer
Groove x MNPT

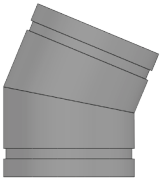
Model 46E
Pages 30-31
Eccentric Reducer



Model 461
Page 32
11.25° Elbow

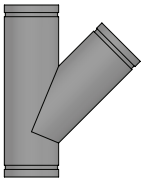


Model 462
Page 33
22.5° Elbow

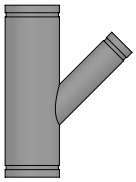


Model 46CAP
Page 34
Cap

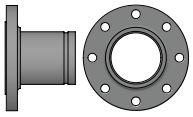
Model 46LAT
Page 35
45° Lateral



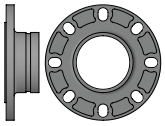
Model 46LAT
Page 36
45° Reducing
Lateral



Model 46F
Page 37
Flange Adaptor



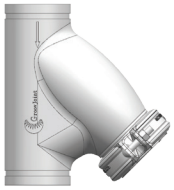
Model 46FC
Page 38
Cast Flange
Adaptor



Model BFSVB02
Page 39
Butterfly Valve

Model 87CV
Page 40
Check Valve

Model 52YS
Page 41
Wye Type
Strainer



Stainless Steel Press System

PJECOUP
Page 48
Press Coupling

PJESCOUP
Page 48
Press Slip Coupling

PJE90
Page 49
Press 90° Elbow

PJE90M
Page 49
Press 90° Street Elbow

PJE45
Page 50
Press 45° Elbow

PJE45M
Page 50
Press 45° Street Elbow

PJET
Page 51
Press Tee

PJET REDUCING
Page 52
Press Reducing Tee

PJEFT
Page 53
Press Reducing Tee FPT Branch

PJEFP
Page 54
Press Reducer

PJEVLV
Page 55
Press Ball Valve

PJEFA
Page 56
Press Female Adaptor

PJEMA
Page 57
Press Male Adaptor

PJEF
Page 58
Press Flange

PJEP
Page 58
Press Cap

PJEU
Page 59
Press Union

PJEVF
Page 59
Press Van Stone Flange

PJEWA
Page 60
Press Weld Adaptor

Approvals and Certifications

GroovJoint fittings undergo rigorous testing before going to market. All fittings must pass dimensional and chemical analysis prior to shipping.

ISO 14001:2015 Environmental Management System

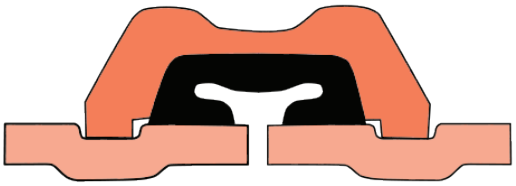
ISO 9001:2015 Quality Management System

Industry & Government Standards & Approvals

ANSI	American National Standards Institute
AWWA	American Water Works Association: C 606
FM	Factory Mutual Engineering Corp.
IAPMO	International Accociation of Plumbing & Mechanical Official
NSF	NSF International
UL	Underwriter's Laboratories, Inc.
ULC	Underwriter's Laboratories of Canada

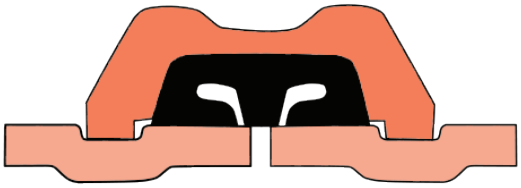
Gasket Recommendations

GroovJoint coupling gaskets are available in many grades of materials and gasket styles.
The two most common styles are the C style and E style of gasket. These are pictured below.



"C" style gasket

"C" Style
The most widely used gaskets when working with grooved couplings and fittings. All GroovJoint grooved couplings come standard with the "C" style gasket installed.



"E" style gasket

"E" Style (Flush Seal)
Commonly called flush seal, these are primarily used for vacuum service. The inner lip of the gasket helps reduce the possibility of the gasket cavity filling up with debris and/or the distortion of the gasket in vacuum service.

GroovJoint Rubber Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluoroelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

Stainless Steel Rigid Coupling

Model 24

GroovJoint Model #24 couplings are made from ASTM A743/A743M cast stainless steel (316 Stainless Steel).
Can be used on Schedule 10 or Schedule 40 grooved pipe.

Domestic options are available.

Maximum Working Pressure:
1-1/2"–12" Sch.10 stainless steel grooved pipe 300 psi (21 bar)
1-1/2"–12" Sch. 40 stainless steel grooved pipe 600 psi (41 bar)
14" & 16" Sch.10/40 stainless steel grooved pipe 300 psi (21 bar)

Stainless Steel Housing
316L SS, ASTM A743/A743M

Stainless Steel Bolts
304 SS Trac bolts conforming to ASTM A193 B-8
316 SS Bolts available upon request

Stainless Steel Nuts
304 SS heavy-duty washer nuts conforming to ASTM A194 B8, molybdenum disulfide coated
316 SS nuts available upon request

Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
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Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

NSF/ANSI/CAN 61 IAPMO R&T ®

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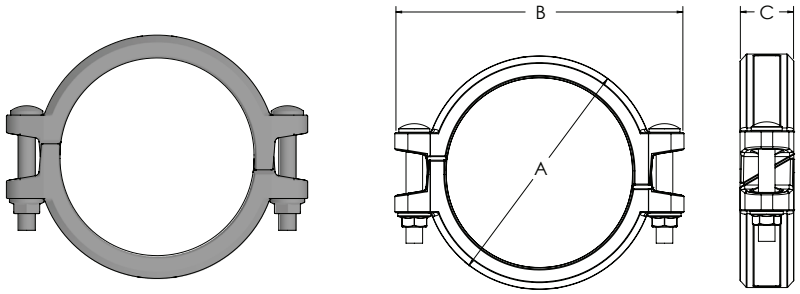

Pipe Size		Nominal Dimensions			Max. † Pressures psi *bar*	Bolt Size in	Weight lbs *kg*
Nominal in *DN/mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*			
1-1/2 40	**1.900** 48	**2.83** 72	**4.29** 109	**1.81** 46	**600** 41	**3/8**	**1.6** 0.7
2 50	**2.375** 60	**3.41** 86	**5.12** 130	**1.88** 47	**600** 41	**3/8**	**2.4** 1.1
2-1/2 65	**2.875** 73	**3.91** 99	**5.63** 143	**1.88** 47	**600** 41	**3/8**	**2.6** 1.2
3 80	**3.500** 88	**4.63** 117	**6.25** 158	**1.88** 47	**600** 41	**3/8**	**3.0** 1.4
4 100	**4.500** 114	**5.81** 147	**7.50** 190	**1.97** 50	**600** 41	**1/2**	**4.8** 2.2
5 125	**5.563** 141	**7.09** 180	**9.71** 246	**2.04** 51	**600** 41	**5/8**	**6.6** 3.0
6 150	**6.625** 168	**8.09** 205	**10.53** 267	**2.13** 54	**600** 41	**5/8**	**7.6** 3.4
8 200	**8.625** 219	**10.56** 268	**13.56** 344	**2.62** 66	**600** 41	**3/4**	**16.0** 7.3
10 250	**10.750** 273	**12.84** 326	**16.41** 416	**2.62** 66	**600** 41	**7/8**	**22.2** 10.1
12 300	**12.750** 323	**15.41** 391	**18.84** 478	**2.62** 66	**600** 41	**7/8**	**30.2** 13.7

Stainless Steel Rigid Coupling

Model 24

GroovJoint Model #24 couplings are made from ASTM A743/A743M cast stainless steel (316 Stainless Steel).
Can be used on Schedule 10 or Schedule 40 grooved pipe.

Domestic options are available.

Maximum Working Pressure:
1-1/2"–12" Sch.10 stainless steel grooved pipe 300 psi (21 bar)
1-1/2"–12" Sch. 40 stainless steel grooved pipe 600 psi (41 bar)
14" & 16" Sch.10/40 stainless steel grooved pipe 300 psi (21 bar)

Stainless Steel Housing
316L SS, ASTM A743/A743M

Stainless Steel Bolts
304 SS Trac bolts conforming to ASTM A193 B-8
316 SS Bolts available upon request

Stainless Steel Nuts
304 SS heavy-duty washer nuts conforming to ASTM A194 B8, molybdenum disulfide coated
316 SS nuts available upon request

Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

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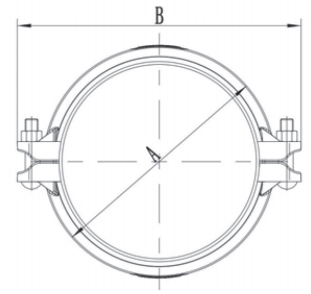
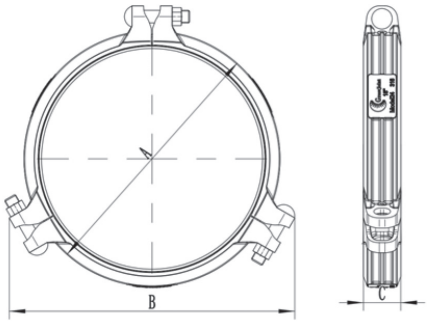


14"-16"



18"-24"

Pipe Size		Nominal Dimensions			Max. † Pressures psi *bar*	Bolt Size in	Weight lbs *kg*
Nominal in *DN/mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*			
14 350	**14.000** 355	**16.00** 406	**19.37** 492	**2.75** 69	**300** 21	**7/8**	**31.0** 14.1
16 400	**16.000** 406	**18.00** 457	**21.50** 546	**2.88** 73	**300** 21	**7/8**	**38.0** 17.2
18 450	**18.000** 457	**20.00** 509	**22.40** 569	**2.92** 74.3	**300** 21	**1**	**44.0** 20.0
20 500	**20.000** 508	**22** 565	**24.40** 620	**2.92** 74.3	**300** 21	**1**	**48.0** 21.8
24 600	**24.000** 609	**26** 667	**28.10** 713	**2.97** 75.4	**300** 21	**1**	**60.0** 27.2

Stainless Steel Flexible Coupling

Model 15

GroovJoint Model #15 couplings are made from ASTM A743/A743M cast stainless steel (316 Stainless Steel). Can be used on Schedule 10 or Schedule 40 grooved pipe.

Domestic options are available.

Maximum Working Pressure:
1"–12" Sch.10 stainless steel grooved pipe 300 psi (21 bar)
1"–12" Sch. 40 stainless steel grooved pipe 600 psi (41 bar)

Stainless Steel Housing
316L SS, ASTM A743/A743M

Stainless Steel Bolts
304 SS Trac bolts conforming to ASTM A193 B-8
316 SS Bolts available upon request

Stainless Steel Nuts
304 SS heavy-duty washer nuts conforming to ASTM A194 B8, molybdenum disulfide coated
316 SS nuts available upon request

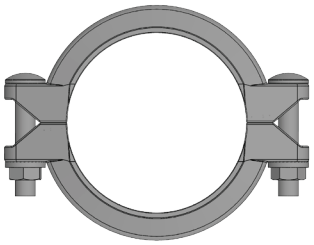
Gaskets

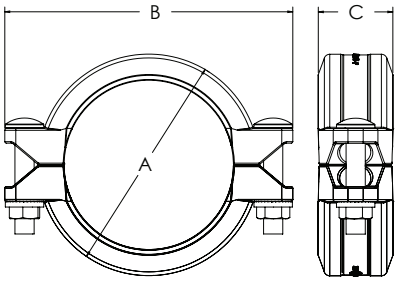
EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

NSF/ANSI/CAN 61
IAPMO R&T ®





Pipe Size		Nominal Dimensions			Max. Working Pressure psi *bar*	Axial Displacement* in	Deflection Degree ° - ft	Bolt Size in	Weight lbs *kg*
Nominal Size in *DN/mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*					
1 25	**1.310** 33	**2.19** 56	**3.45** 88	**1.73** 44	**600** 41	**0 - 0.06**	**2° - 45'**	**3/8**	**0.8** 0.4
1-1/4 32	**1.660** 42	**2.54** 65	**3.85** 98	**1.73** 44	**600** 35	**0 - 0.06**	**2° - 10'**	**3/8**	**1.0** 0.5
1-1/2 40	**1.900** 48	**2.79** 71	**4.14** 105	**1.73** 44	**600** 41	**0 - 0.06**	**1° - 54'**	**3/8**	**1.2** 0.5
2 50	**2.370** 60	**3.28** 83	**4.88** 124	**1.73** 44	**600** 41	**0 - 0.06**	**1° - 31'**	**3/8**	**1.6** 0.7
2-1/2 65	**2.870** 73	**3.88** 98	**5.55** 141	**1.73** 45	**600** 41	**0 - 0.06**	**1° - 15'**	**3/8**	**2.2** 1.0
3 80	**3.500** 89	**4.39** 111	**6.18** 157	**1.73** 44	**600** 41	**0 - 0.06**	**1° - 2'**	**3/8**	**2.6** 1.2
4 100	**4.500** 114	**5.62** 143	**7.87** 200	**1.97** 50	**600** 41	**0 - 0.13**	**1° - 36'**	**1/2**	**4.4** 2.0
6 150	**6.620** 168	**7.80** 198	**9.96** 253	**2.09** 53	**600** 41	**0 - 0.13**	**1° - 05'**	**5/8**	**7.4** 3.4
8 200	**8.620** 219	**10.04** 255	**13.27** 337	**2.44** 62	**600** 41	**0 - 0.13**	**0° - 50'**	**3/4**	**14.2** 6.4
10 250	**10.750** 273	**13.22** 336	**15.82** 402	**2.44** 62	**600** 41	**0 - 0.13**	**0° - 45'**	**7/8**	**18.4** 8.3
12 300	**12.750** 324	**15.52** 394	**17.68** 449	**2.44** 62	**600** 41	**0 - 0.13**	**0° - 37'**	**7/8**	**34.2** 15.2

*Figures are maximums for rolled grooved. Standard cut groove may double these values.
For design, values should be reduced by 50% up to 3" and 25% for 4" and greater.

Stainless Steel Heavy-Duty Flexible Coupling

Model 15X

GroovJoint Model #15 couplings are made from ASTM A743/A743M cast stainless steel (316 Stainless Steel). Can be used on Schedule 10 or Schedule 40 grooved pipe.

Domestic options are available.

Maximum Working Pressure:
1-1/2"–12" Sch.10 stainless steel grooved pipe 300 psi (21 bar)
1-1/2"–12" Sch. 40 stainless steel grooved pipe 1000 psi (69 bar)

Stainless Steel Housing
316L SS, ASTM A743/A743M

Stainless Steel Bolts
304 SS Trac bolts conforming to ASTM A193 B-8
316 SS Bolts available upon request

Stainless Steel Nuts
304 SS heavy-duty washer nuts conforming to ASTM A194 B8, molybdenum disulfide coated
316 SS nuts available upon request

Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

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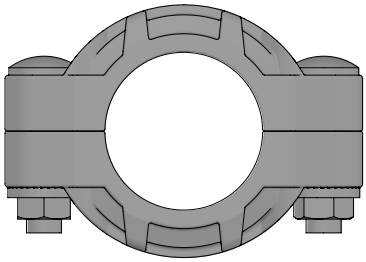

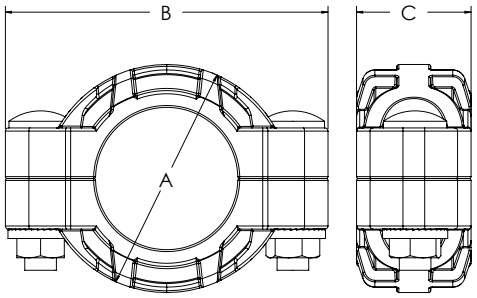

Pipe Size		Nominal Dimensions			Max. Working Pressure psi *bar*	Axial Displacement* in	Deflection Degree ° - ft	Bolt Size in	Weight lbs *kg*
Nominal Size in *DN/mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*					
1-1/2 40	**1.900** 48	**3.02** 76.7	**4.66** 118.4	**1.83** 46.5	**1000** 69	**0 - 0.06**	**1° - 56'**	**1/2**	**2.4** 1.1
2 50	**2.370** 60	**3.60** 91.6	**5.10** 129.5	**1.81** 46.0	**1000** 69	**0 - 0.06**	**1° - 31'**	**1/2**	**2.8** 1.3
2-1/2 65	**2.870** 73	**4.25** 108.0	**4.74** 120.4	**1.83** 46.5	**1000** 69	**0 - 0.06**	**1° - 15'**	**1/2**	**3.6** 1.6
3 80	**3.500** 89	**4.89** 124.4	**6.56** 166.7	**1.84** 46.8	**1000** 69	**0 - 0.06**	**1° - 2'**	**1/2**	**4.4** 2.0
4 100	**4.500** 114	**6.10** 155.1	**8.16** 207.5	**1.98** 50.4	**1000** 69	**0 - 0.13**	**1° - 36'**	**5/8**	**6.8** 3.1
6 150	**6.620** 168	**8.58** 218	**10.94** 278	**2.04** 52	**1000** 69	**0 - 0.13**	**1° - 12'**	**3/4**	**11.6** 5.3
8 200	**8.620** 219	**10.82** 274.9	**13.51** 343.2	**2.39** 60.9	**1000** 69	**0 - 0.13**	**0° - 50'**	**7/8**	**20.4** 9.3
10 250	**10.750** 273	**13.43** 341.3	**17.12** 435.0	**2.53** 64.5	**1000** 69	**0 - 0.13**	**0° - 40'**	**1**	**36.0** 16.3
12 300	**12.750** 324	**15.62** 396.9	**19.43** 493.7	**2.53** 64.5	**1000** 69	**0 - 0.13**	**0° - 34'**	**1**	**42.4** 19.2

*Figures are maximums for rolled grooved. Standard cut groove may double these values.
For design, values should be reduced by 50% up to 3" and 25% for 4" and greater.

Galvanized Ductile Iron Rigid Coupling

Ducco GT 4020

GroovJoint Model #GT4020 couplings are manufactured by DUCCO industries, sold by GroovJoint. Can be used on Schedule 10 or Schedule 40 grooved pipe.

Maximum Working Pressure:
1"–12" Sch.10 stainless steel grooved pipe 300 psi (21 bar)
1"–6" Sch. 40 stainless steel grooved pipe 750 psi (52 bar)
8"–12" Sch. 40 stainless steel grooved pipe 600 psi (41 bar)
UL/ULC/FM Listed
1"–12" Sch.10/40 stainless steel grooved pipe 300 psi (21 bar)

Ductile Iron Housing
ASTM A-536 Grade 65-45-12

Coating
Hot dipped zinc galvanization

Bolts
ASTM A183 Zinc plating oval neck track-head bolts
316 SS Bolts available upon request

Nuts
ASTM A183 Heavy hexagon nuts
316 SS nuts available upon request

Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

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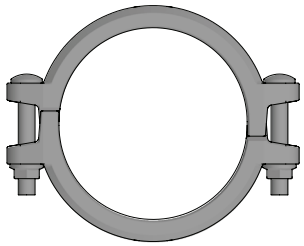

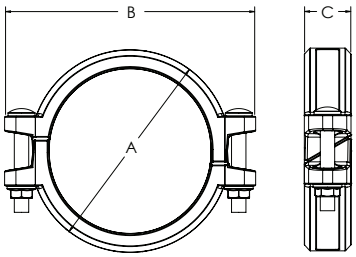

Pipe Size		Nominal Dimensions			Max. † Pressure psi	Bolt Size metric	Weight lbs *kg*
Size in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*			
1 25	**1.310** 33	**2.17** 55	**3.86** 98	**1.77** 45	**750** 52	**M10**	**0.8** 0.4
1-1/4 32	**1.660** 42	**2.36** 60	**4.21** 107	**1.77** 45	**750** 52	**M10**	**1.0** 0.5
1-1/2 40	**1.900** 48	**2.80** 71	**4.49** 114	**1.77** 45	**750** 52	**M10**	**1.2** 0.5
2 50	**2.375** 60	**3.35** 85	**5.04** 128	**1.77** 45	**750** 52	**M10**	**1.4** 0.6
2-1/2 65	**2.875** 73	**3.94** 100	**5.79** 147	**1.89** 48	**750** 52	**M10**	**1.8** 0.8
3 80	**3.500** 88	**4.45** 113	**6.34** 161	**1.89** 48	**750** 52	**M10**	**2.2** 1.0
4 100	**4.500** 114	**5.63** 143	**7.68** 195	**2.09** 53	**750** 52	**M10**	**3.0** 1.4
5 125	**5.563** 141	**6.77** 172	**9.06** 230	**2.09** 53	**750** 52	**M12**	**4.6** 2.1
6 150	**6.625** 168	**7.87** 200	**10.43** 265	**2.13** 54	**750** 52	**M12**	**5.6** 2.5
8 200	**8.625** 219	**10.24** 260	**13.94** 354	**2.32** 59	**600** 41	**M20**	**11.6** 5.3
10 250	**10.750** 273	**12.40** 315	**15.98** 406	**2.48** 63	**600** 41	**M20**	**14.8** 6.7
12 300	**12.750** 323	**14.49** 368	**18.19** 462	**2.52** 64	**600** 41	**M20**	**20.2** 9.2

Duplex Heavy-Duty Flexible Coupling

Model 76DU

GroovJoint Model #76DU couplings are made from Duplex CD3MN (2205) duplex stainless steel. Can be used on Schedule 10 or Schedule 40/80 grooved pipe.

Maximum Cold Working Pressure (CWP):
2"–6" Sch.40 stainless steel cut grooved pipe 1200 psi (82 bar)
2"–6" Sch.80 stainless steel cut grooved pipe 1200 psi (82 bar)

Duplex Stainless Steel Housing
Duplex CD3MN (2205)

Stainless Steel Bolts
316 SS Bolts

Stainless Steel Nuts
316 SS Bolts, teflon dipped

Gaskets

EPDM Grade "E" (green stripe)
- Temperature range -30°F to +230°F/-34°C to +110°C
- Recommended for hot/cold water service, it can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
- IAPMO classified in accordance with ANSI/NSF 61 for potable water service from +86°F to +180°F/+30°C to +82°C.
- Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR) "T" (orange stripe)
- Temperature range -20°F to +180°F /-29°C to +82°C
- Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
- Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Fluorelastomer Grade (Viton, FKM) "O" (blue stripe)
- Temperature range +20°F to +300°F/-7°C to +149°C
- Recommended for oxidizing acids, petroleum oil products, hydrocarbons, hydraulic fluids and air with hydrocarbons.

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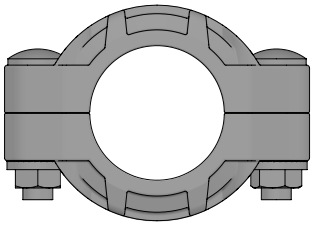

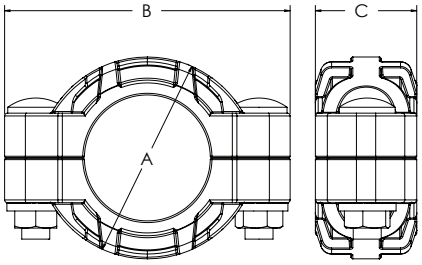

Pipe Size		Nominal Dimensions			Max. † Pressure psi *bar*	Deflection Degree ° - ft	Bolt Size in	Weight lbs *kg*
Nominal Size in *DN/mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*				
2 50	**2.375** 60	**5.12** 130	**3.35** 85	**1.77** 45	**1200** 63	**2°-20'**	**3/8**	**2.6** 1.2
2-1/2 65	**2.875** 73	**5.91** 150	**3.78** 96	**1.77** 45	**1200** 63	**2°-10'**	**1/2**	**3.4** 1.5
3 80	**3.500** 89	**6.42** 163	**4.45** 113	**1.77** 45	**1200** 63	**1°-47'**	**1/2**	**4.0** 1.8
4 100	**4.500** 114	**7.95** 202	**5.67** 144	**1.97** 50	**1200** 63	**3°-0'**	**5/8**	**6.8** 3.1
6 150	**6.625** 168	**10.98** 279	**7.95** 202	**2.05** 52	**1200** 63	**2°-22'**	**3/4**	**12.4** 5.6

Stainless Steel Grooved Fittings

GroovJoint Stainless Steel Grooved Pipe Fittings are designed to reduce labor costs in the field by using the grooved method for the installation of piping systems.

Approvals

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Material Specifications

1" - 12"
GroovJoint grooved pipe fittings are full-flow design in both 304L and 316L grades of stainless steel, conforming to ASTM A403. Products are available in both Sch. 10 and Sch. 40 wall thicknesses. Sch. 40 fittings can be roll grooved or cut grooved.

14" - 24"
GroovJoint larger diameter fittings are manufactured (A403WPW/A774, A403CR, A774/ASTM774) and are available in both 304L and 316L grades and Sch. 10 and Sch. 40 wall thicknesses.

Pressure Rating

GroovJoint Fittings are rated to the pressure of the lowest rated component of the system, please see GroovJoint Couplings pages for pressure ratings.

GroovJoint Product Codes

469, 464, 46T, 46RT, 46RTS, 46RTST, 46C, 46CMT, 46CS, 46E, 46CAP

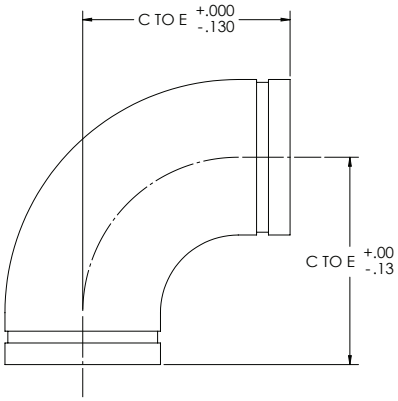
*461, 462, 46F, 46FC, 46LAT (Not UL Listed Fittings)

Product Code Detail

469	4	60	40*	D*
Product code	Grade	Pipe Diameter	Thickness (If REQ)	Domestic (If REQ)

Stainless Steel 90° Elbow

Model 469



Pipe Size		C to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1 25	**1.315** 33	**2.88** 73	**0.6** 0.3
1-1/4 32	**1.660** 42	**3.13** 80	**0.8** 0.4
1-1/2 40	**1.900** 48	**3.50** 89	**1.2** 0.5
2 50	**2.375** 60	**4.50** 114	**1.8** 0.8
2-1/2 65	**2.875** 73	**5.00** 127	**2.6** 1.2
3 80	**3.500** 88	**4.50** 114	**3.2** 1.5
4 100	**4.500** 114	**6.00** 152	**4.4** 2.0
5 125	**5.563** 141	**7.50** 191	**7.8** 3.5
6 150	**6.625** 168	**9.00** 229	**11.4** 5.2
8 200	**8.625** 219	**12.00** 305	**21.8** 9.9
10 250	**10.750** 273	**15.00** 381	**37.8** 17.1
12 300	**12.750** 324	**18.00** 457	**57.6** 26.1
14 355	**14.000** 355	**21.00** 533	**80.0** 36.3
16 406	**16.000** 406	**24.00** 609	**104.0** 47.2
18 457	**18.000** 457	**27.00** 685	**125.0** 56.7
20 508	**20.000** 508	**30.00** 762	**180.0** 81.6
24 609	**24.000** 609	**36.00** 914	**305.0** 138.3

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

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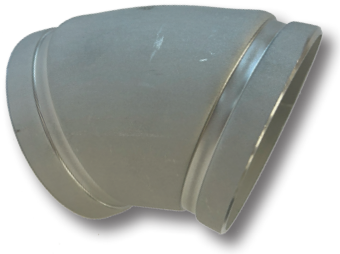
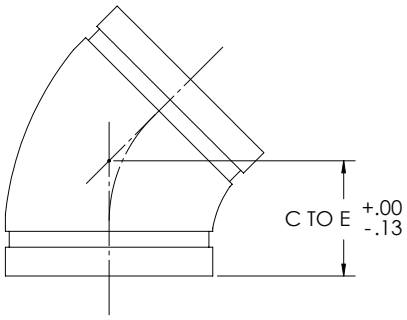
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel 45° Elbow

Model 464





Pipe Size		C to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1 25	**1.315** 33	**2.00** 51	**0.4** 0.2
1-1/4 32	**1.660** 42	**2.00** 51	**0.6** 0.3
1-1/2 40	**1.900** 48	**2.25** 89	**0.8** 0.4
2 50	**2.375** 60	**2.75** 70	**1.4** 0.6
2-1/2 65	**2.875** 73	**2.81** 71	**1.6** 0.7
3 80	**3.500** 89	**2.00** 51	**1.8** 0.8
4 100	**4.500** 114	**2.50** 64	**2.2** 1.0
5 125	**5.563** 141	**3.13** 79	**3.8** 1.7
6 150	**6.625** 168	**3.75** 95	**5.6** 2.5
8 200	**8.625** 219	**5.00** 127	**12.2** 5.5
10 250	**10.750** 273	**6.25** 159	**19.0** 8.6
12 300	**12.750** 324	**7.50** 191	**29.6** 13.4
14 355	**14.000** 355	**8.80** 223	**40.0** 18.1
16 406	**16.000** 406	**10.00** 254	**52.0** 23.6
18 457	**18.000** 457	**11.30** 287	**67.0** 30.4
20 508	**20.000** 508	**12.50** 317	**95.0** 43.1
24 609	**24.000** 609	**15.00** 381	**158.0** 71.7

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

NSF/ANSI/CAN 61

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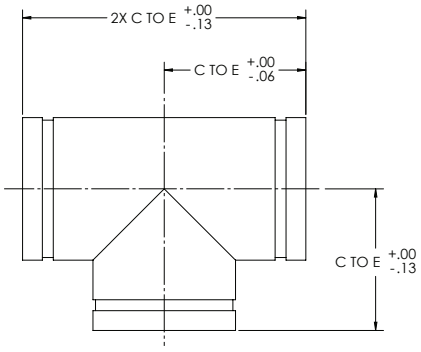
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Tee

Model 46T



Pipe Size		C to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1 25	**1.315** 33	**2.88** 73	**0.8** 0.4
1-1/4 32	**1.660** 42	**3.38** 86	**1.4** 0.6
1-1/2 40	**1.900** 48	**3.38** 86	**1.6** 0.7
2 50	**2.375** 60	**2.75** 70	**1.8** 0.8
2-1/2 65	**2.875** 73	**3.07** 78	**2.2** 1.0
3 80	**3.500** 89	**3.77** 96	**4.0** 1.8
4 100	**4.500** 114	**4.47** 114	**5.2** 2.4
5 125	**5.563** 141	**5.91** 150	**8.6** 3.9
6 150	**6.625** 168	**5.91** 150	**11.8** 5.4
8 200	**8.625** 219	**7.79** 198	**21.6** 9.8
10 250	**10.750** 273	**8.89** 226	**36** 16.3
12 300	**12.750** 324	**10.39** 264	**53.0** 24.0
14 355	**14.000** 355	**11.00** 279	**64.0** 29.0
16 406	**16.000** 406	**12.00** 300	**74.8** 33.9
18 457	**18.000** 457	**14.00** 355	**97.6** 44.3
20 508	**20.000** 508	**15.00** 381	**133.4** 60.5
24 609	**24.000** 609	**22.00** 558	**285.0** 129.3

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

NSF/ANSI/CAN 61

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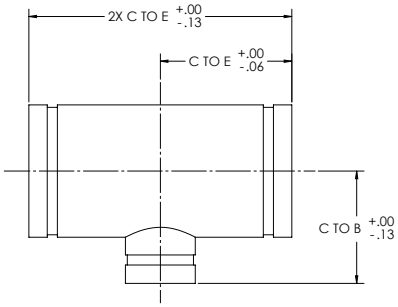
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Reducing Tee

Model 46RT



Pipe Size		C to E	C to B	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	in *mm*	lbs *kg*
1-1/2 x 1-1/2 x 1	**1.900 x 1.900 x 1.315**	**2.75**	**2.75**	**1.2**
40 x 40 x 25	48 x 48 x 33	86	86	0.5
1-1/2 x 1-1/2 x 1-1/4	**1.900 x 1.900 x 1.660**	**2.75**	**2.75**	**1.2**
40 x 40 x 32	48 x 48 x 42	86	86	0.5
2 x 2 x 1	**2.375 x 2.375 x 1.315**	**3.25**	**3.25**	**1.8**
50 x 50 x 25	60 x 60 x 33	83	70	0.8
2 x 2 x 1-1/4	**2.375 x 2.375 x 1.660**	**3.25**	**3.25**	**1.8**
50 x 50 x 32	60 x 60 x 42	83	83	0.8
2 x 2 x 1-1/2	**2.375 x 2.375 x 1.900**	**3.25**	**3.25**	**1.8**
50 x 50 x 40	60 x 60 x 48	83	83	0.8
2-1/2 x 2-1/2 x 1	**2.875 x 2.875 x 1.315**	**3.75**	**3.75**	**2.4**
65 x 65 x 25	73 x 73 x 33	95	95	1.1
2-1/2 x 2-1/2 x 1-1/4	**2.875 x 2.875 x 1.660**	**3.75**	**3.75**	**2.4**
65 x 65 x 32	73 x 73 x 42	95	95	1.1
2-1/2 x 2-1/2 x 1-1/2	**2.875 x 2.875 x 1.900**	**3.75**	**3.75**	**2.4**
65 x 65 x 40	73 x 73 x 48	95	95	1.1
2-1/2 x 2-1/2 x 2	**2.875 x 2.875 x 2.375**	**3.13**	**3.13**	**2.4**
65 x 65 x 50	73 x 73 x 60	79	79	1.1
3 x 3 x 1	**3.500 x 3.500 x 1.315**	**4.25**	**4.25**	**3.0**
80 x 80 x 25	89 x 89 x 33	108	108	1.4
3 x 3 x 1-1/4	**3.500 x 3.500 x 1.660**	**4.25**	**4.25**	**3.0**
80 x 80 x 32	89 x 89 x 42	108	108	1.4
3 x 3 x 1-1/2	**3.500 x 3.500 x 1.900**	**4.25**	**4.25**	**3.0**
80 x 80 x 40	89 x 89 x 48	108	108	1.4
3 x 3 x 2	**3.500 x 3.500 x 2.375**	**3.75**	**3.25**	**3.0**
80 x 80 x 50	89 x 89 x 60.	95	83	1.4
3 x 3 x 2-1/2	**3.500 x 3.500 x 2.875**	**3.75**	**3.25**	**3.0**
80 x 80 x 65	89 x 89 x 73	95	83	1.4
4 x 4 x 2	**4.500 x 4.500 x 2.375**	**4.50**	**3.88**	**4.2**
100 x 100 x 50	114x 114 x 60	114	95	1.9
4 x 4 x 2-1/2	**4.500 x 4.500 x 2.875**	**4.50**	**4.31**	**4.2**
100 x 100 x 65	114 x 114 x 73	114	110	1.9
4 x 4 x 3	**4.500 x 4.500 x 3.500**	**4.50**	**3.88**	**4.2**
100 x 100 x 80	114 x 114 x 89	114	70	1.9

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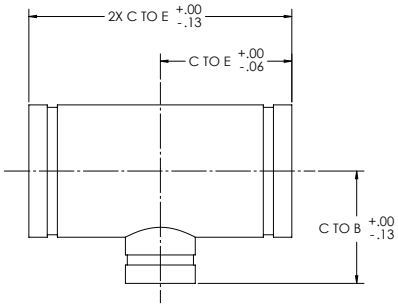
Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Reducing Tee

Model 46RT



Pipe Size		C to E	C to B	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	in *mm*	lbs *kg*
6 x 6 x 1-1/2	**6.625 x 6.625 x 1.900**	**5.88**	**6.50**	**9.8**
150 x 150 x 40	168 x 168 x 48	149	165	4.4
6 x 6 x 2	**6.625 x 6.625 x 2.375**	**5.88**	**5.88**	**9.8**
150 x 150 x 50	168 x 168 x 60	149	149	4.4
6 x 6 x 2-1/2	**6.625 x 6.625 x 2.875**	**5.88**	**5.88**	**9.8**
150 x 150 x 65	168 x 168 x 73	149	149	4.4
6 x 6 x 3	**6.625 x 6.625 x 3.500**	**5.88**	**4.88**	**9.8**
150 x 150 x 80	168 x 168 x 89	149	124	4.4
6 x 6 x 4	**6.625 x 6.625 x 4.500**	**5.88**	**5.13**	**9.8**
150 x 150 x 100	168 x 168 x 114	149	130	4.4
8 x 8 x 3	**8.625 x 8.625 x 3.500**	**7.75**	**6.25**	**18.0**
200 x 200 x 80	219 x 219 x 89	197	168	8.2
8 x 8 x 4	**8.625 x 8.625 x 4.500**	**7.75**	**6.25**	**18.0**
200 x 200 x 100	219 x 219 x 114	197	159	8.2
8 x 8 x 6	**8.625 x 8.625 x 6.625**	**7.75**	**6.63**	**18.0**
200 x 200 x 150	219 x 219 x 168	197	168	8.2
10 x 10 x 6	**10.750 x 10.750 x 6.625**	**8.88**	**8.50**	**31.8**
250 x 250 x 200	273 x 273 x 168	225	216	14.4
10 x 10 x 8	**10.750 x 10.750 x 8.625**	**8.88**	**8.50**	**31.8**
250 x 250 x 200	273 x 273 x 219	225	216	14.4
12 x 12 x 8	**12.750 x 12.750 x 8.625**	**10.38**	**9.51**	**44.4**
300 x 300 x 200	34 x 34 x 219	264	242	20.1
12 x 12 x 10	**12.750 x 12.750 x 10.750**	**10.38**	**9.89**	**44.4**
300 x 300 x 250	324 x 324 x 273	264	251	20.1
14 x 14 x 12	**14.000 x 14.000 x 12.750**	**11.00**	**11.00**	**54.0**
355 x 355 x 300	355 x 355 x 323	279	279	24.5
16 x 16 x 14	**16.000 x 16.000 x 14.000**	**12.00**	**12.00**	**65.0**
406 x 406 x 355	406 x 406 x 355	300	300	29.5
18 x 18 x 16	**18.000 x 18.000 x 16.000**	**14.00**	**14.00**	**83.0**
457 x 457 x 406	457 x 457 x 406	355	355	37.6
20 x 20 x 18	**20.000 x 20.000 x 18.000**	**15.00**	**15.00**	**118.0**
508 x 508 x 457	508 x 508 x 457	381	381	53.5
24 x 24 x 20	**24.000 x 24.000 x 20.000**	**22.00**	**22.00**	**179.0**
609 x 609 x 508	609 x 609 x 508	558	558	81.2

NSF/ANSI/CAN 61

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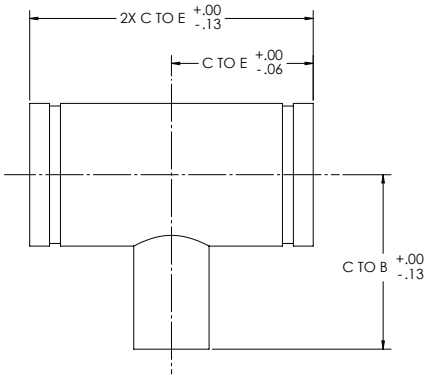
Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Reducing Tee Groove x Press

Model 46RTS



Pipe Size		C to E	C to B	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	in *mm*	lbs *kg*
2-1/2 x 2-1/2 x 3/4	**2.875 x 2.875 x 1.050**	**3.75**	**4.10**	**2.4**
65 x 65 x 20	73 x 73 x 27	95	104	1.1
2-1/2 x 2-1/2 x 1	**2.875 x 2.875 x 1.315**	**3.75**	**4.10**	**2.4**
65 x 65 x 25	73 x 73 x 33	95	104	1.1
2-1/2 x 2-1/2 x 1-1/4	**2.875 x 2.875 x 1.660**	**3.75**	**4.10**	**2.4**
65 x 65 x 32	73 x 73 x 42	95	104	1.1
2-1/2 x 2-1/2 x 1-1/2	**2.875 x 2.875 x 1.900**	**3.75**	**4.10**	**2.4**
65 x 65 x 40	73 x 73 x 48	95	104	1.1
2-1/2 x 2-1/2 x 2	**2.875 x 2.875 x 2.375**	**3.75**	**4.60**	**2.4**
65 x 65 x 50	73 x 73 x 60	95	117	1.1
3 x 3 x 3/4	**3.500 x 3.500 x 1.050**	**4.25**	**4.20**	**3.0**
80 x 80 x 20	89 x 89 x 27	108	107	1.4
3 x 3 x 1	**3.500 x 3.500 x 1.315**	**4.25**	**4.20**	**3.0**
80 x 80 x 25	89 x 89 x 33	108	107	1.4
3 x 3 x 1-1/4	**3.500 x 3.500 x 1.660**	**4.25**	**4.20**	**3.0**
80 x 80 x 32	89 x 89 x 42	108	107	1.4
3 x 3 x 1-1/2	**3.500 x 3.500 x 1.900**	**4.25**	**4.50**	**3.0**
80 x 80 x 40	89 x 89 x 48	108	114	1.4
3 x 3 x 2	**3.500 x 3.500 x 2.375**	**4.25**	**5.00**	**3.0**
80 x 80 x 50	89 x 89 x 60	108	127	1.4
4 x 4 x 3/4	**4.500 x 4.500 x 1.050**	**4.47**	**5.50**	**4.2**
100 x 100 x 20	114 x 114 x27	114	140	1.9
4 x 4 x 1	**4.500 x 4.500 x 1.315**	**4.47**	**5.50**	**4.2**
100 x 100 x 25	114 x 114 x 33	114	140	1.9
4 x 4 x 1-1/4	**4.500 x 4.500 x 1.660**	**4.47**	**5.50**	**4.2**
100 x 100 x 32	114 x 114 x 42	114	140	1.9
4 x 4 x 1-1/2	**4.500 x 4.500 x 1.900**	**4.47**	**5.50**	**4.2**
100 x 100 x 40	114 x 114 x 48	114	140	1.9
4 x 4 x 2	**4.500 x 4.500 x 2.375**	**4.47**	**5.50**	**4.2**
100 x 100 x 50	114 x 114 x 60	114	140	1.9
6 x 6 x 3/4	**6.625 x 6.625 x 1.050**	**5.91**	**6.00**	**9.8**
150 x 150 x 20	168 x 168 x 27	150	152	4.4
6 x 6 x 1	**6.625 x 6.625 x 1.315**	**5.91**	**6.00**	**9.8**
150 x 150 x 25	168 x 168 x 33	150	152	4.4
6 x 6 x 1-1/4	**6.625 x 6.625 x 1.660**	**5.91**	**6.00**	**9.8**
150 x 150 x 32	168 x 168 x 42	150	152	4.4
6 x 6 x 1-1/2	**6.625 x 6.625 x 1.900**	**5.91**	**6.00**	**9.8**
150 x 150 x 40	168 x 168 x 48	150	152	4.4
6 x 6 x 2	**6.625 x 6.625 x 2.375**	**5.91**	**6.50**	**9.8**
150 x 150 x 50	168 x 168 x 60	150	165	4.4

NSF/ANSI/CAN 61

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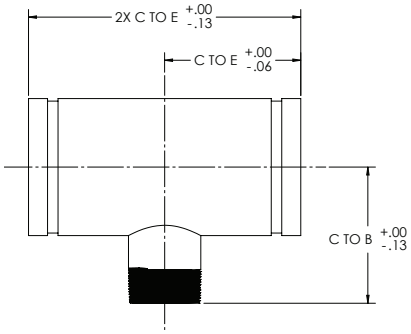
Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Reducing Tee Groove x MNPT

Model 46RTST



Pipe Size		C to E	C to B	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	in *mm*	lbs *kg*
2-1/2 x 2-1/2 x 3/4	**2.875 x 2.875 x 1.050**	**3.75**	**3.75**	**2.4**
65 x 65 x 20	73 x 73 x 27	95	95	1.1
2-1/2 x 2-1/2 x 1	**2.875 x 2.875 x 1.315**	**3.75**	**3.75**	**2.4**
65 x 65 x 25	73 x 73 x 33	95	95	1.1
2-1/2 x 2-1/2 x 1-1/4	**2.875 x 2.875 x 1.660**	**3.75**	**3.75**	**2.4**
65 x 65 x 32	73 x 73 x 42	95	95	1.1
2-1/2 x 2-1/2 x 1-1/2	**2.875 x 2.875 x 1.900**	**3.75**	**3.75**	**2.4**
65 x 65 x 40	73 x 73 x 48	95	95	1.1
2-1/2 x 2-1/2 x 2	**2.875 x 2.875 x 2.375**	**3.75**	**3.75**	**2.4**
65 x 65 x 50	73 x 73 x 60	95	95	1.1
3 x 3 x 3/4	**3.500 x 3.500 x 1.050**	**4.25**	**4.25**	**3.0**
80 x 80 x 20	89 x 89 x 27	108	108	1.4
3 x 3 x 1	**3.500 x 3.500 x 1.315**	**4.25**	**4.25**	**3.0**
80 x 80 x 25	89 x 89 x 33	108	108	1.4
3 x 3 x 1-1/4	**3.500 x 3.500 x 1.660**	**4.25**	**4.25**	**3.0**
80 x 80 x 32	89 x 89 x 42	108	108	1.4
3 x 3 x 1-1/2	**3.500 x 3.500 x 1.900**	**4.25**	**4.25**	**3.0**
80 x 80 x 40	89 x 89 x 48	108	108	1.4
3 x 3 x 2	**3.500 x 3.500 x 2.375**	**4.25**	**4.25**	**3.0**
80 x 80 x 50	89 x 89 x 60	108	108	1.4
4 x 4 x 3/4	**4.500 x 4.500 x 1.050**	**4.47**	**4.47**	**4.2**
100 x 100 x 20	114 x 114 x27	114	114	1.9
4 x 4 x 1	**4.500 x 4.500 x 1.315**	**4.47**	**4.47**	**4.2**
100 x 100 x 25	114 x 114 x 33	114	114	1.9
4 x 4 x 1-1/4	**4.500 x 4.500 x 1.660**	**4.47**	**4.47**	**4.2**
100 x 100 x 32	114 x 114 x 42	114	114	1.9
4 x 4 x 1-1/2	**4.500 x 4.500 x 1.900**	**4.47**	**4.47**	**4.2**
100 x 100 x 40	114 x 114 x 48	114	114	1.9
4 x 4 x 2	**4.500 x 4.500 x 2.375**	**4.47**	**4.47**	**4.2**
100 x 100 x 50	114 x 114 x 60	114	114	1.9
6 x 6 x 3/4	**6.625 x 6.625 x 1.050**	**5.91**	**5.91**	**9.8**
150 x 150 x 20	168 x 168 x 27	150	150	4.4
6 x 6 x 1	**6.625 x 6.625 x 1.315**	**5.91**	**5.91**	**9.8**
150 x 150 x 25	168 x 168 x 33	150	150	4.4
6 x 6 x 1-1/4	**6.625 x 6.625 x 1.660**	**5.91**	**5.91**	**9.8**
150 x 150 x 32	168 x 168 x 42	150	150	4.4
6 x 6 x 1-1/2	**6.625 x 6.625 x 1.900**	**5.91**	**5.91**	**9.8**
150 x 150 x 40	168 x 168 x 48	150	150	4.4
6 x 6 x 2	**6.625 x 6.625 x 2.375**	**5.91**	**5.91**	**9.8**
150 x 150 x 50	168 x 168 x 60	150	150	4.4

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

NSF/ANSI/CAN 61

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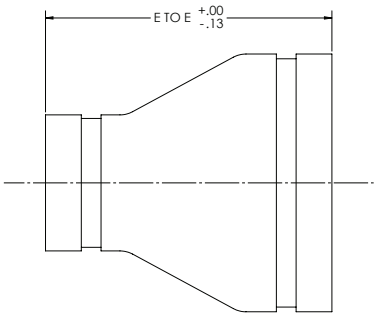
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Concentric Reducer

Model 46C



Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1-1/2 x 1	**1.900 x 1.315**	**3.75**	**0.6**
40 x 25	48 x 34	95	0.3
1-1/2 x 1-1/4	**1.900 x 1.660**	**3.75**	**0.6**
40 x 32	48 x 42	95	0.3
2 x 1	**2.375 x 1.315**	**3.75**	**0.8**
50 x 25	60 x 334	95	0.4
2 x 1-1/4	**2.375 x 1.660**	**3.75**	**0.8**
50 x 32	60 x 42	95	0.4
2 x 1-1/2	**2.375 x 1.900**	**5.00**	**0.8**
50 x 40	60 x 48	127	0.4
2-1/2 x 1-1/2	**2.875 x 1.900**	**5.00**	**1.2**
65 x 40	73 x 48	127	0.5
2-1/2 x 2	**2.875 x 2.375**	**5.00**	**1.2**
65 x 50	73 x 60	127	0.5
3 x 1	**3.500 x 1.315**	**5.00**	**1.8**
80 x 25	89 x 34	127	0.8
3 x 1-1/4	**3.500 x 1.660**	**5.00**	**1.8**
80 x 32	89 x 4	127	0.8
3 x 1-1/2	**3.500 x 1.900**	**5.00**	**1.8**
80 x 40	89 x 48	127	0.8
3 x 2	**3.500 x 2.375**	**5.00**	**1.8**
80 x 50	89 x 60	127	0.8
3 x 2-1/2	**3.500 x 2.875**	**5.00**	**1.8**
80 x 65	88x 73	127	0.8
4 x 2	**4.500 x 2.375**	**5.00**	**2.4**
100 x 50	114 x 60	127	1.1
4 x 2-1/2	**4.500 x 2.875**	**5.00**	**2.4**
100 x 65	114 x 73	127	1.1
4 x 3	**4.500 x 3.500**	**5.00**	**2.4**
100 x 80	114 x 89	127	1.1
5 x 3	**5.563 x 3.500**	**9.00**	**3.2**
125 x 80	141 x 89	229	1.5
5 x 4	**5.563 x 4.500**	**9.00**	**3.2**
125 x 100	141 x 114	229	1.5

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

NSF/ANSI/CAN 61

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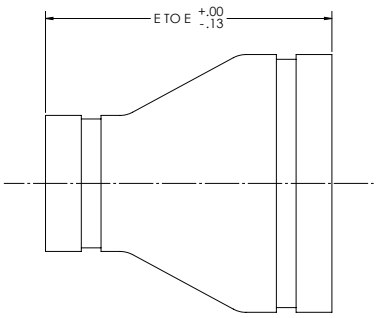
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Concentric Reducer

Model 46C



Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
6 x 2 150 x 50	**6.625 x 2.375** 168 x 60	**5.50** 229	**4** 1.8
6 x 2-1/2 150 x 65	**6.625 x 2.875** 168 x 73	**5.50** 381	**4** 1.8
6 x 3 150 x 100	**6.625 x 3.500** 168 x 89	**5.50** 140	**4** 1.8
6 x 4 150 x 100	**6.625 x 4.500** 168 x 114	**5.50** 140	**4** 1.8
6 x 5 150 x 125	**6.625 x 5.563** 168 x 141	**5.50** 140	**4** 1.8
8 x 4 200 x 100	**8.625 x 4.500** 219 x 114	**6.00** 152	**6.8** 3.1
8 x 6 200 x 150	**8.625 x 6.625** 219 x 168	**6.00** 152	**6.8** 3.1
10 x 4 250 x 100	**10.750 x 4.500** 273 x 114	**7.00** 254	**10.2** 4.6
10 x 6 250 x 150	**10.750 x 6.625** 273 x 168	**7.00** 178	**10.2** 4.6
10 x 8 250 x 200	**10.750 x 8.625** 273 x 219	**7.00** 178	**10.2** 4.6
12 x 6 300 x 150	**12.750 x 6.625** 324 x 168	**8.00** 356	**14.4** 6.5
12 x 8 300 x 200	**12.750 x 8.625** 324 x 219	**8.00** 356	**16.2** 7.3
12 x 10 300 x 250	**12.750 x 10.750** 324 x 273	**8.00** 356	**16.2** 7.3
14 x 12 355 x 300	**14.000 x 12.750** 355 x 323	**17.00** 431	**39.6** 18.0
16 x 14 406 x 355	**16.000 x 14.000** 406 x 355	**18.00** 457	**48.6** 22.0
18 x 16 457 x 406	**18.000 x 16.000** 457 x 406	**19.00** 482	**57.0** 25.9
20 x 18 508 x 457	**20.000 x 18.000** 508 x 457	**24.00** 609	**92.8** 42.1
24 x 20 609 x 508	**24.000 x 20.000** 609 x 508	**24.00** 609	**124.6** 56.5

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

NSF/ANSI/CAN 61

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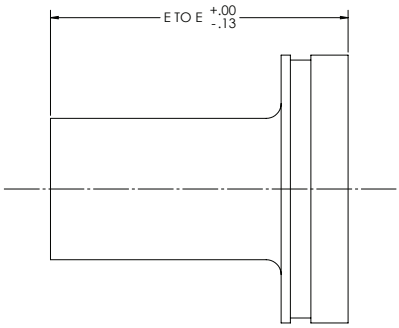
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Concentric Reducer Groove x Press

Model 46CS



Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
2-1/2 x 3/4	**2.875 x 1.050**	**5.00**	**2.0**
65 x 20	73 x 27	127	0.9
2-1/2 x 1	**2.875 x 1.315**	**5.00**	**2.0**
65 x 25	73 x 33	127	0.9
2-1/2 x 1-1/4	**2.875 x 1.660**	**5.00**	**2.0**
65 x 32	73 x 42	127	0.9
2-1/2 x 1-1/2	**2.875 x 1.900**	**5.00**	**2.0**
65 x 40	73 x 48	127	0.9
2-1/2 x 2	**2.875 x 2.375**	**5.00**	**2.0**
65 x 50	73 x 60	127	0.9
3 x 3/4	**3.500 x 1.050**	**5.00**	**2.8**
80 x 20	89 x 27	127	1.3
3 x 1	**3.500 x 1.315**	**5.00**	**2.8**
80 x 25	89 x 33	127	1.3
3 x 1-1/4	**3.500 x 1.660**	**5.00**	**2.8**
80 x 32	89 x 42	127	1.3
3 x 1-1/2	**3.500 x 1.900**	**5.00**	**2.8**
80 x 40	89 x 48	127	1.3
3 x 2	**3.500 x 2.375**	**5.00**	**2.8**
80 x 50	89 x 60	127	1.3
4 x 3/4	**4.500 x 1.050**	**5.00**	**4.8**
100 x 20	114 x 27	127	2.2
4 x 1	**4.500 x 1.315**	**5.00**	**4.8**
100 x 25	114 x 33	127	2.2
4 x 1-1/4	**4.500 x 1.660**	**5.00**	**4.8**
100 x 32	114 x 42	127	2.2
4 x 1-1/2	**4.500 x 1.900**	**5.00**	**4.8**
100 x 40	114 x 48	127	2.2
4 x 2	**4.500 x 2.375**	**5.00**	**4.8**
100 x 50	114 x 60	127	2.2
6 x 3/4	**6.625 x 1.050**	**6.00**	**4.0**
150 x 20	168 x 27	151	1.8
6 x 1	**6.625 x 1.315**	**6.00**	**4.0**
150 x 25	168 x 33	151	1.8
6 x 1-1/4	**6.625 x 1.660**	**6.00**	**4.0**
150 x 32	168 x 42	151	1.8
6 x 1-1/2	**6.625 x 1.900**	**6.00**	**4.0**
150 x 40	168 x 48	151	1.8
6 x 2	**6.625 x 2.375**	**6.00**	**4.0**
150 x 50	168 x 60	151	1.8

Domestic options available

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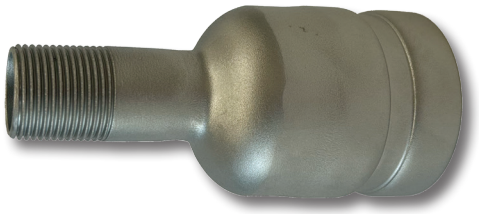
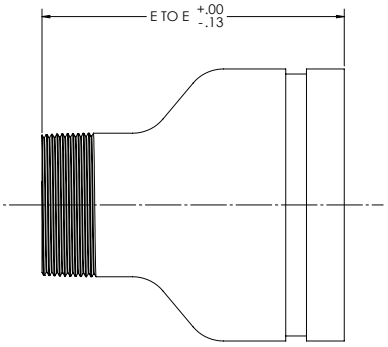
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Concentric Reducer Groove x MNPT

Model 46CMT





Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
2-1/2 x 3/4	**2.875 x 1.050**	**5.00**	**1.2**
65 x 20	73 x 27	127	0.5
2-1/2 x 1	**2.875 x 1.315**	**5.00**	**1.2**
65 x 25	73 x 33	127	0.5
2-1/2 x 1-1/4	**2.875 x 1.660**	**5.00**	**1.2**
65 x 32	73 x 42	127	0.5
2-1/2 x 1-1/2	**2.875 x 1.900**	**5.00**	**1.2**
65 x 40	73 x 48	127	0.5
2-1/2 x 2	**2.875 x 2.375**	**5.00**	**1.2**
65 x 50	73 x 60	127	0.5
3 x 3/4	**3.500 x 1.050**	**5.00**	**1.6**
80 x 20	89 x 27	127	0.7
3 x 1	**3.500 x 1.315**	**5.00**	**1.6**
80 x 25	89 x 33	127	0.7
3 x 1-1/4	**3.500 x 1.660**	**5.00**	**1.6**
80 x 32	89 x 42	127	0.7
3 x 1-1/2	**3.500 x 1.900**	**5.00**	**1.6**
80 x 40	89 x 48	127	0.7
3 x 2	**3.500 x 2.375**	**5.00**	**1.6**
80 x 50	89 x 60	127	0.7
4 x 3/4	**4.500 x 1.050**	**5.00**	**2.0**
100 x 20	114 x 27	127	0.9
4 x 1	**4.500 x 1.315**	**5.00**	**2.0**
100 x 25	114 x 33	127	0.9
4 x 1-1/4	**4.500 x 1.660**	**5.00**	**2.0**
100 x 32	114 x 42	127	0.9
4 x 1-1/2	**4.500 x 1.900**	**5.00**	**2.0**
100 x 40	114 x 48	127	0.9
4 x 2	**4.500 x 2.375**	**5.00**	**2.0**
100 x 50	114 x 60	127	0.9
6 x 3/4	**6.625 x 1.050**	**5.00**	**3.0**
150 x 20	168 x 27	127	1.4
6 x 1	**6.625 x 1.315**	**5.00**	**3.0**
150 x 25	168 x 33	127	1.4
6 x 1-1/4	**6.625 x 1.660**	**5.00**	**3.0**
150 x 32	168 x 42	127	1.4
6 x 1-1/2	**6.625 x 1.900**	**5.00**	**3.0**
150 x 40	168 x 48	127	1.4
6 x 2	**6.625 x 2.375**	**5.00**	**3.0**
150 x 50	168 x 60	127	1.4

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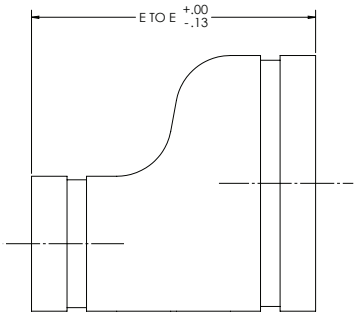
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Eccentric Reducer

Model 46E



Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1-1/2 x 1	**1.900 x 1.315**	**3.75**	**0.6**
40 x 25	48 x 34	95	0.3
1-1/2 x 1-1/4	**1.900 x 1.660**	**3.75**	**0.6**
40 x 32	48 x 42	95	0.3
2 x 1	**2.375 x 1.315**	**3.50**	**0.6**
50 x 25	60 x 34	95	0.3
2 x 1-1/4	**2.375 x 1.660**	**3.50**	**0.8**
50 x 32	60 x 42	95	0.4
2 x 1-1/2	**2.375 x 1.900**	**3.50**	**0.8**
50 x 40	60 x 48	95	0.4
2-1/2 x 2	**2.875 x 2.375**	**5.00**	**1.4**
65 x 50	73 x 60	127	0.6
3 x 1	**3.500 x 1.315**	**5.00**	**2.0**
80 x 25	89 x 34	127	0.9
3 x 2	**3.500 x 2.375**	**5.00**	**2.0**
80 x 50	89 x 60	127	0.9
3 x 2-1/2	**3.500 x 2.875**	**5.00**	**2.0**
80 x 65	89 x 73	127	0.9
4 x 2	**4.500 x 2.375**	**5.00**	**2.4**
100 x 50	114 x 60	127	1.1
4 x 2-1/2	**4.500 x 2.875**	**5.00**	**2.4**
100 x 65	114 x 73	127	1.1
4 x 3	**4.500 x 3.500**	**5.00**	**2.4**
100 x 80	114 x 89	127	1.1
5 x 3	**5.563 x 3.500**	**9.00**	**4.4**
125 x 80	141 x 89	229	2.0
5 x 4	**5.563 x 4.500**	**9.00**	**4.4**
125 x 100	141 x 114	229	2.0

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

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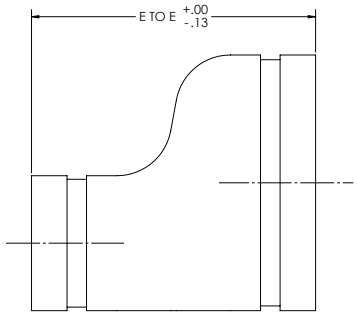
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Eccentric Reducer

Model 46E



Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
6 x 2 150 x 50	**6.625 x 2.375** 168 x 60	**9.00** 229	**6.6** 3.0
6 x 2-1/2 150 x 65	**6.625 x 2.875** 168 x 73	**9.00** 229	**6.6** 3.0
6 x 3 150 x 100	**6.625 x 3.500** 168 x 89	**9.00** 229	**6.6** 3.0
6 x 4 150 x 100	**6.625 x 4.500** 168 x 114	**9.00** 128	**6.6** 3.0
8 x 3 200 x 80	**8.625 x 3.500** 219 x 89	**10.00** 254	**11.6** 5.3
8 x 4 200 x 100	**8.625 x 4.500** 219 x 114	**12.00** 305	**11.6** 5.3
8 x 6 200 x 150	**8.625 x 6.625** 219 x 168	**12.00** 203	**11.6** 5.3
10 x 6 250 x 150	**10.750 x 6.625** 273 x 168	**13.00** 330	**12.6** 5.7
10 x 8 250 x 200	**10.750 x 8.625** 273 x 219	**13.00** 330	**12.6** 5.7
12 x 6 300 x 150	**12.750 x 6.625** 324 x 168	**14.00** 356	**21.4** 9.7
12 x 8 300 x 200	**12.750 x 8.625** 324 x 219	**14.00** 356	**21.4** 9.7
12 x 10 300 x 250	**12.750 x 10.750** 324 x 273	**14.00** 356	**21.4** 9.7

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

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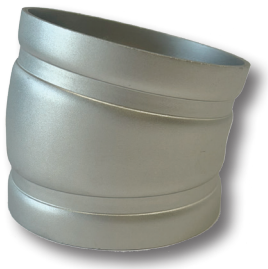
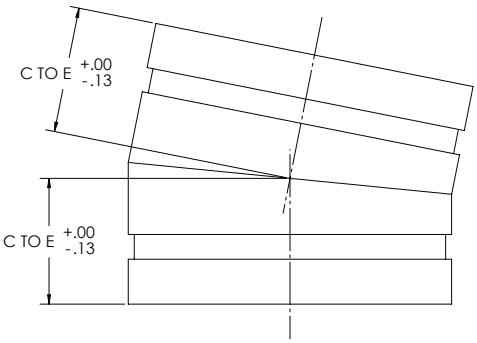
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel 11.25° Elbow

Model 461





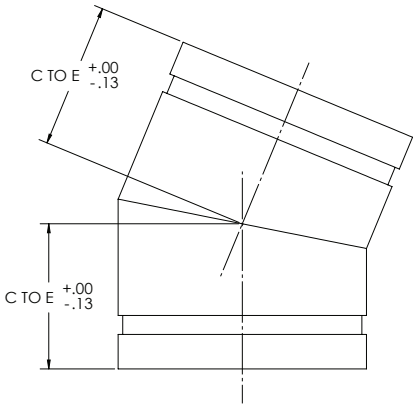
Pipe Size		C to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1-1/2	**1.900**	**1.38**	**0.6**
40	48	35	0.3
2	**2.375**	**1.38**	**0.8**
50	60	35	0.4
2-1/2	**2.875**	**1.50**	**1.0**
65	73	38	0.5
3	**3.500**	**1.50**	**1.2**
80	89	38	0.5
4	**4.500**	**1.75**	**1.6**
100	114	45	0.7
5	**5.563**	**2.00**	**2.2**
125	141	51	1.0
6	**6.625**	**2.00**	**3.0**
150	168	51	1.4
8	**8.625**	**2.00**	**4.6**
200	219	51	2.1
10	**10.750**	**2.13**	**9.2**
250	273	54	4.2
12	**12.750**	**2.25**	**16.8**
300	324	57	7.6
14	**14.000**	**3.50**	**32.2**
350	356	89	14.6
16	**16.000**	**4.00**	**42.0**
400	406	101	19.1
18	**18.000**	**4.50**	**53.2**
450	457	114	24.1
20	**20.000**	**5.00**	**65.8**
500	508	127	29.8
24	**24.000**	**6.00**	**96.0**
600	610	152	43.5

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel 22.5° Elbow

Model 462



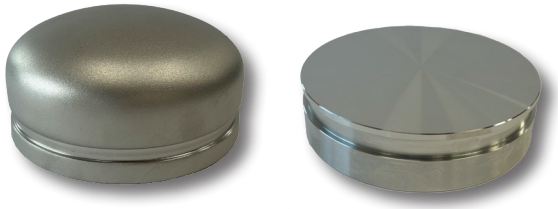
Pipe Size			
Nominal in *mm*	O.D. in *mm*	C to E in *mm*	Weight lbs *kg*
1-1/2 40	**1.900** 48	**1.75** 45	**0.8** 0.4
2 50	**2.375** 60	**1.88** 48	**1.2** 0.5
2-1/2 65	**2.875** 73	**2.00** 51	**1.6** 0.7
3 80	**3.500** 88	**2.25** 57	**2.0** 0.9
4 100	**4.500** 114	**2.63** 67	**2.4** 1.1
5 125	**5.563** 141	**2.88** 73	**4.2** 1.9
6 150	**6.625** 168	**3.13** 80	**4.8** 2.2
8 200	**8.625** 219	**3.88** 99	**9.2** 4.2
10 250	**10.750** 273	**4.38** 111	**14.0** 6.4
12 300	**12.750** 324	**4.88** 124	**22.0** 10.0
14 350	**14.000** 356	**5.00** 127	**46.0** 20.9
16 400	**16.000** 406	**5.00** 127	**52.2** 23.7
18 450	**18.000** 457	**5.50** 140	**65.0** 29.5
20 500	**20.000** 508	**6.00** 152	**80.0** 36.3
24 600	**24.000** 610	**7.00** 178	**112.0** 50.8

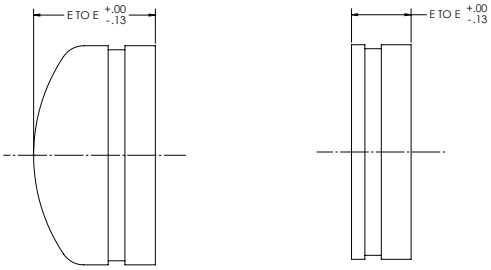
Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Cap

Model 46CAP





Pipe Size		E to E	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*	lbs *kg*
1 25	**1.315** 33	**1.08** 28	**0.4** 0.2
1-1/4 32	**1.660** 42	**1.08** 28	**0.5** 0.2
1-1/2 40	**1.900** 48	**1.08** 28	**0.6** 0.3
2 50	**2.375** 60	**1.08** 28	**0.8** 0.4
2-1/2 65	**2.875** 73	**1.08** 28	**1.2** 0.5
3 80	**3.500** 89	**1.08** 28	**1.6** 0.7
4 100	**4.500** 114	**1.25** 29	**2.6** 1.2
5 125	**5.563** 141	**3.00** 76	**2.2** 1.0
6 150	**6.625** 168	**3.50** 89	**3.4** 1.5
8 200	**8.625** 219	**4.00** 102	**5.2** 2.4
10 250	**10.750** 273	**5.00** 127	**9.4** 4.3
12 300	**12.750** 324	**6.00** 152	**15.2** 6.9

Schedule 10 dimensions
(Schedule 40 dimensions may vary)
Domestic options available

1"-4" machined
5"-12" roll grooved

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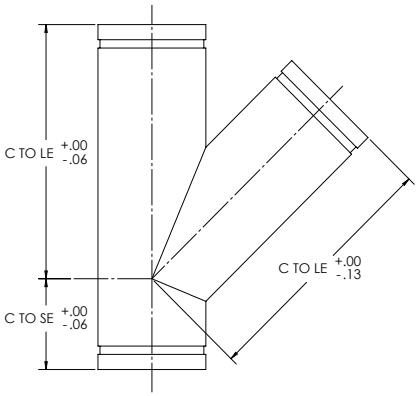
MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel 45° Lateral

Model 46LAT

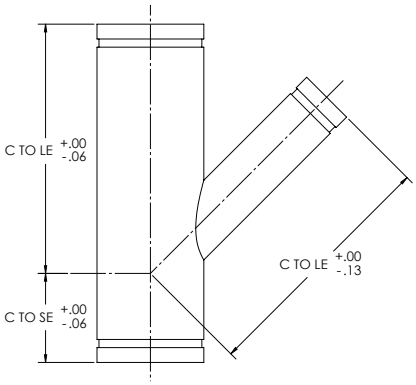


Pipe Size		C to LE in *mm*	C to SE in *mm*	Weight lbs *kg*
Nominal in *DN/mm*	O.D. in *mm*			
1	**1.315**	**5.00**	**2.25**	**1.4**
25	34	127	57	0.6
1-1/4	**1.660**	**5.75**	**2.50**	**1.9**
32	42	146	64	0.9
1-1/2	**1.900**	**6.25**	**2.75**	**2.6**
40	48	159	70	1.2
2	**2.375**	**7.00**	**2.75**	**3.2**
50	60	178	70	1.5
2-1/2	**2.875**	**7.75**	**3.00**	**5.3**
65	73	197	76	2.4
3	**3.500**	**8.50**	**3.25**	**5.8**
80	89	216	836	2.6
4	**4.500**	**10.50**	**3.75**	**11.2**
100	114	267	95	5.1
6	**6.625**	**14.00**	**4.50**	**21.0**
150	168	356	114	9.5
8	**8.625**	**18.00**	**6.00**	**33.2**
200	219	457	152	15.1
10	**10.750**	**20.50**	**6.50**	**47.6**
250	273	521	165	21.6
12	**12.750**	**23.00**	**7.00**	**79.2**
300	324	584	178	35.9

Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available

Stainless Steel 45° Reducing Lateral

Model 46LAT



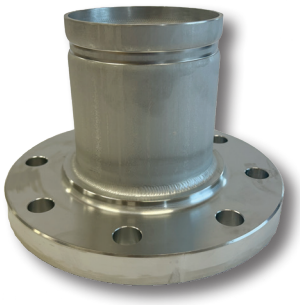
Nominal Pipe Size		C to LE in *mm*	C to SE in *mm*	Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*			
3 x 3 x 2	**3.500 x 3.500 x 2.375**	**8.50**	**3.25**	**5.6**
80 x 80 x 50	89 x 89 x 60	216	83	2.5
3 x 3 x 2-1/2	**3.500 x 3.500 x 2.875**	**8.50**	**3.25**	**5.6**
80 x 80 x 85	89 x 89 x 73	216	83	2.5
4 x 4 x 2	**4.500 x 4.500 x 2.375**	**10.50**	**3.75**	**11.0**
100 x 100 x 50	114 x 114 x 60	267	95	5.0
4 x 4 x 2-1/2	**4.500 x 4.500 x 2.875**	**10.50**	**3.75**	**11.0**
100 x 100 x 65	114 x 114 x 73	267	95	5.0
4 x 4 x 3	**4.500 x 4.500 x 3.500**	**10.50**	**3.75**	**11.0**
100 x 100 x 80	114 x 114 x 89	267	95	5.0
6 x 6 x 3	**6.625 x 6.625 x 3.500**	**14.00**	**4.50**	**20.2**
150 x 150 x 80	168 x 168 x 89	356	114	9.2
6 x 6 x 4	**6.625 x 6.625 x 4.500**	**14.00**	**4.50**	**20.2**
150 x 150 x 100	168 x 168 x 114	356	114	9.2
8 x 8 x 6	**8.625 x 8.625 x 6.625**	**18.00**	**6.00**	**33.0**
200 x 200 x 150	219 x 219 x 168	457	152	15.0
10 x 10 x 6	**10.750 x 10.750 x 6.625**	**20.50**	**6.50**	**47.0**
250 x 250 x 150	273 x 273 x 168	521	165	21.3
10 x 10 x 8	**10.750 x 10.750 x 8.625**	**20.50**	**6.50**	**47.0**
250 x 250 x 200	273 x 273 x 219	521	165	21.3
12 x 12 x 6	**12.750 x 12.750 x 6.625**	**23.00**	**7.00**	**76.0**
300 x 300 x 150	324 x 324 x 168	584	178	34.5

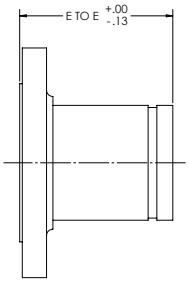
Schedule 10 dimensions (Schedule 40 dimensions may vary)
Domestic options available
Other reductions available upon request

Stainless Steel Flange Adaptor

Model 46F

Raised Face





Pipe Size		E to E	Bolt Holes	Weight
Nominal in *mm*	O.D. in *mm*	in *mm*		lbs *kg*
1 25	**1.315** 33	**3.00** 76	**4**	**2.4** 1.1
1-1/4 32	**1.660** 42	**4.00** 102	**4**	**2.8** 1.3
1-1/2 40	**1.900** 48	**4.00** 102	**4**	**3.6** 1.6
2 50	**2.375** 60	**4.00** 102	**4**	**5.2** 2.4
2-1/2 65	**2.875** 73	**4.00** 102	**4**	**9.0** 4.1
3 80	**3.500** 89	**4.00** 102	**4**	**10.4** 4.7
4 100	**4.500** 114	**6.00** 152	**8**	**15.0** 6.8
5 125	**5.563** 141	**6.00** 152	**8**	**19.8** 9.0
6 150	**6.625** 168	**6.00** 152	**8**	**22.2** 10.1
8 200	**8.625** 219	**6.00** 152	**8**	**35.4** 16.1
10 250	**10.750** 273	**8.00** 203	**12**	**51.4** 23.3
12 300	**12.750** 324	**8.00** 203	**12**	**72.4** 32.8

Schedule 10 dimensions
(Schedule 40 dimensions may vary)
Domestic options available

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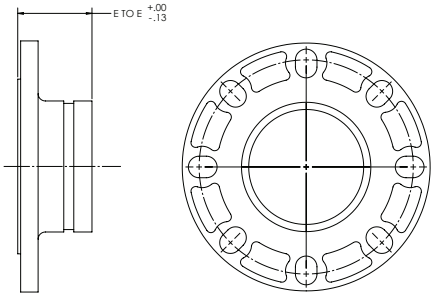
Stainless Steel Cast Universal Flange Adaptor

Model 46FC

Raised Face



Pipe Size		E to E	Max. Working Pressure	Bolt Holes	Weight lbs
Nominal in *mm*	O.D. in *mm*	in *mm*	psi *bar*		*kg*
2 50	**2.375** 60	**2.37** 60	**300** 21	**4**	**2.8** 1.3
2-1/2 65	**2.875** 76	**2.37** 60	**300** 21	**8**	**3.6** 1.6
3 80	**3.500** 89	**2.37** 60	**300** 21	**8**	**6.2** 2.8
4 100	**4.500** 114	**2.37** 60	**300** 21	**8**	**7.0** 3.2
5 125	**5.563** 141	**2.56** 65	**300** 21	**8**	**9.6** 4.4
6 150	**6.625** 165	**2.56** 65	**300** 21	**8**	**12.0** 5.4
8 200	**8.625** 219	**3.00** 76	**300** 21	**8**	**21.0** 9.5

Standard ANSI 125/150, PN10, PN16, JIS 10K, BS-10E

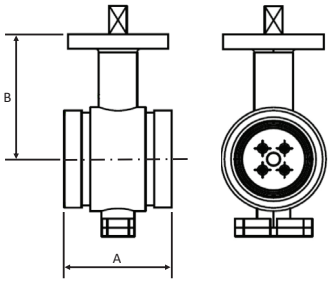
NSF/ANSI/CAN 61

IAPMO R&T ®

MAXIMUM WORKING PRESSURE – See specific data sheet for rating of coupling in use.

Stainless Steel Butterfly Valve

Model BFSVB02



Pipe Size		E to E	Max. Working Pressure	Weight lbs
Nominal in *mm*	O.D. in *mm*	in *mm*	psi *bar*	*kg*
2 50	**2.370** 60	**3.19** 81	**300** 21	**7.7** 3.5
2-1/2 65	**3.000** 76	**3.81** 97	**300** 21	**8.4** 3.8
3 80	**3.500** 89	**3.81** 97	**300** 21	**9.9** 4.5
4 100	**4.500** 114	**4.56** 116	**300** 21	**12.8** 5.8
5 125	**5.563** 141	**5.81** 148	**300** 21	**17.6** 8.0
6 150	**6.625** 165	**5.86** 149	**300** 21	**26.5** 12.0
8 200	**8.625** 219	**5.25** 133	**300** 21	**39.7** 18.0

GroovJoint Model BFSVB02 stainless steel, offset disc grooved-end butterfly valve. Grooved ends are original groove system. Operating temperature depends on the rubber seat being used.

Maximum Working pressure
2"-8" stainless steel grooved pipe 300 psi (21 bar)

Body
CF8M

Disc
CF8M

Clamp Ring
CF8M

Shaft
316 SS

Seat
EPDM (NBR also available)

O Ring
EPDM (NBR also available)

Taper Pin
CF8M

Bottom Cover
CF8M

Bottom Seal
EPDM (NBR also available)

Mounting Flange
ISO 5211 Mounting Flange

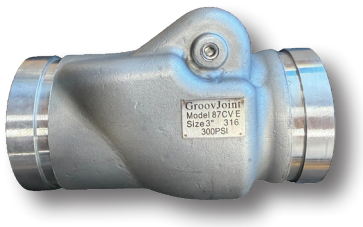
Actuation
Handle: 10-Position SS handle and latching plate with SS fasteners.
Gear Operator: Handwheel with memory stop.

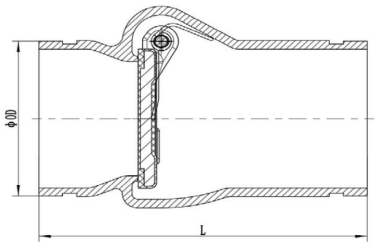
Seats
EPDM (E)
Temperature range -30°F to +230°F/-34°C to +110°C
Recommended for Hot/Cold water service It can also be used with a wide variety of dilute acids, oil-free air and many chemical services.
Not recommended for petroleum or steam service.

Nitrile Grade (Buna, NBR)
Temperature range -20°F to +180°F /-29°C to +82°C
Recommended for petroleum products, air with oil vapors, vegetable oils and mineral oils.
Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

Stainless Steel Check Valve

Model 87CV



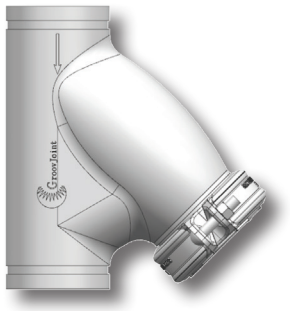


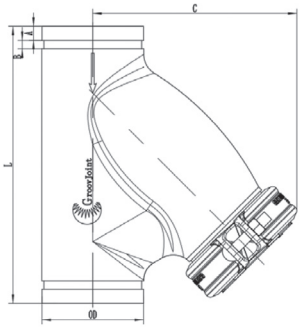
Pipe Size		L	Max. Working Pressure
Nominal in *mm*	O.D. in *mm*	in	psi *bar*
1.5 40	**1.900** 48	**5.83**	**300** 21
2 50	**2.375** 89	**6.26**	**300** 21
2-1/2 65	**2.875** 73	**6.69**	**300** 21
3 80	**3.500** 89	**7.24**	**300** 21
4 100	**4.500** 114	**8.66**	**300** 21
5 125	**5.563** 141	**9.84**	**300** 21
6 150	**6.625** 168	**10.75**	**300** 21
8 200	**8.625** 219	**12.99**	**300** 21
10 250	**10.750** 273	**17.13**	**300** 21
12 300	**12.750** 324	**20.08**	**300** 21

PART NAME	MATERIAL
BODY	SS 316
DISC	SS 316 + EPDM
SEAT	EPDM
HINGE PIN	SS 316

Stainless Steel Wye Type Strainer

Model 52YS





Pipe Size		L	C	Max. Working Pressure
Nominal in *mm*	O.D. in *mm*	in	in	psi *bar*
2 50	2.375 60	7.76	5.75	300 21
2-1/2 65	2.875 73	8.86	6.61	300 21
3 80	3.500 89	9.80	7.40	300 21
4 100	4.500 114	12.28	9.06	300 21
5 125	5.563 141	13.98	10.40	300 21
6 150	6.625 168	16.34	12.01	300 21

PART NAME	MATERIAL
BODY/COUPLING/END CAP	SS 316
BASKET	SS 316
GASKET	EPDM/NBR/FKM

Fabrication

GroovJoint manufactures a variety of stainless steel custom fabrications and specialty fittings designed to the customer's needs.

Specialty products include, but are not limited to:

- Custom dimension fittings
- Custom reduction tees and reducers
- Grooved laterals & wyes
- Large diameter grooved reducing tees
- 3D grooved elbows
- Grooved spool pieces
- Groove by press fittings
- Groove by male or female thread fittings

Schedule 40 Stainless Steel Fittings

As part of our product offering, GroovJoint stocks schedule 40 stainless steel fittings in both 304L and 316L grades.

Sizes range from 1"-12" and 14"-24" fittings may be available upon request.

All Sch. 40 fittings are designed to be as close to the Sch. 10 dimensions where possible. All dimensions are available on request.

Domestic options available

Most products can be offered in either a roll grooved end or a cut grooved end (depending on the customers needs).

Fittings include, but are not limted to:
- Grooved and Thread Nipples
- Flange Adaptors
- Laterals
- True Wye's
- Crosses
- Transition Fittings
- 22-1/2° Elbows
- 11-1/4° Elbows

NSF/ANSI/CAN 61

IAPMO R&T

UL LISTED

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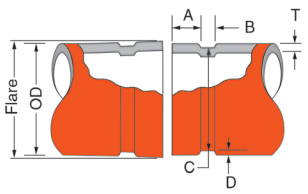
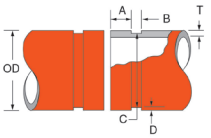
GROOVJOINT STANDARD ROLL GROOVE SPECIFICATION FOR STEEL & OTHER IPS OR ISO SIZE PIPE

-1-	-2-			-3-	-4-	-5-		-6-	-7-	-8-
Nominal Pipe Size	O.D.			A ±0.030/ ±0.76	B ±0.030/ ±0.76	C Actual	C Tol. +0.000	D (Ref. Only)	T Min. Allow. Wall Thick	Max. Flare Dia.
	Actual	Tolerance								
In./DN(mm)	In./mm	+In./mm	-In./mm	In./mm	In./mm	IIn./mm	-In./mm	In./mm	In./mm	In./mm
1	1.315	+0.028	-0.015	0.625	0.281	1.190	-0.015	0.063	0.065	1.430
25	33.4	+0.71	-0.38	15.88	7.14	30.23	-0.38	1.60	1.7	36.3
1-1/4	1.660	+0.029	-0.016	0.625	0.281	1.535	-0.015	0.063	0.065	1.770
32	42.2	+0.74	-0.41	15.88	7.14	38.99	-0.38	1.60	1.7	45.0
1-1/2	1.900	+0.019	-0.019	0.625	0.281	1.775	-0.015	0.063	0.065	2.010
40	48.3	+0.48	-0.48	15.88	7.14	45.09	-0.38	1.60	1.7	51.1
2	2.375	+0.024	-0.024	0.625	0.344	2.250	-0.015	0.063	0.065	2.480
50	60.3	+0.61	-0.61	15.88	8.74	57.15	-0.38	1.60	1.7	63.0
2-1/2	2.875	+0.029	-0.029	0.625	0.344	2.720	-0.018	0.078	0.083	2.980
65	73.0	+0.74	-0.74	15.88	8.74	69.09	-0.46	1.98	2.1	75.7
3	3.500	+0.035	-0.031	0.625	0.344	3.344	-0.018	0.078	0.083	3.600
80	88.9	+0.89	-0.79	15.88	8.74	84.94	-0.46	1.98	2.1	91.4
3-1/2	4.000	+0.040	-0.031	0.625	0.344	3.834	-0.020	0.083	0.083	4.100
90	101.6	+1.02	-0.79	15.88	8.74	97.38	-0.51	2.11	2.1	104.1
4	4.500	+0.045	-0.031	0.625	0.344	4.334	-0.020	0.083	0.083	4.600
100	114.3	+1.14	-0.79	15.88	8.74	110.08	-0.51	2.11	2.1	116.8
5	5.563	+0.056	-0.031	0.625	0.344	5.395	-0.022	0.084	0.109	5.660
125	141.3	+1.42	-0.79	15.88	8.74	137.03	-0.56	2.13	2.8	143.8
6	6.625	+0.063	-0.031	0.625	0.344	6.455	-0.022	0.085	0.109	6.730
150	168.3	+1.60	-0.79	15.88	8.74	163.96	-0.56	2.16	2.8	170.9
8	8.625	+0.063	-0.031	0.750	0.469	8.441	-0.025	0.092	0.109	8.800
200	219.1	+1.60	-0.79	19.05	11.91	214.40	-0.64	2.34	2.8	223.5
10	10.750	+0.063	-0.031	0.750	0.469	10.562	-0.027	0.094	0.134	10.920
250	273.1	+1.60	-0.79	19.05	11.91	268.27	-0.69	2.39	3.4	277.4
12	12.750	+0.063	-0.031	0.750	0.469	12.531	-0.030	0.109	0.156	12.920
300	323.9	+1.60	-0.79	19.05	11.91	318.29	-0.76	2.77	4.0	328.2
14 O.D.	14.000	+0.063	-0.031	0.938	0.469	13.781	-0.030	0.109	0.156	14.100
355.6	355.6	+1.60	-0.79	23.83	11.91	350.04	-0.76	2.77	4.0	358.1
16 O.D.	16.000	+0.063	-0.031	0.938	0.469	15.781	-0.030	0.109	0.165	16.100
406.4	406.4	+1.60	-0.79	23.83	11.91	400.84	-0.76	2.77	4.2	708.9
18 O.D.	18.000	+0.063	-0.031	1.000	0.469	17.781	-0.030	0.109	0.165	18.160
457.2	457.2	+1.60	-0.79	25.40	11.91	451.64	-0.76	2.77	4.2	461.3
20 O.D.	20.000	+0.063	-0.031	1.000	0.469	19.781	-0.030	0.109	0.188	20.160
508.0	508.0	+1.60	-0.79	25.40	11.91	502.44	-0.76	2.77	4.8	512.1
24 O.D.	24.000	+0.063	-0.031	1.000	0.563	23.656	-0.030	0.172	0.218	24.200
609.6	609.6	+1.60	-0.79	25.40	14.30	600.86	-0.76	4.37	5.5	614.7
30 O.D.	30.000	+0.093	-0.031	1.750▼	0.625	29.500	-0.063	0.250	0.250	30.200
762.0	762.0	2.36	0.79	44.45	15.88	749.30	1.60	6.35	6.35	761.1



GROOVJOINT STANDARD CUT GROOVE SPECIFICATION FOR STEEL & OTHER IPS OR ISO SIZE PIPE

-1-	-2-			-3-	-4-	-5-		-6-	-7-
Nominal Pipe Size	O.D.			A ±0.030/ ±0.76	B ±0.030/ ±0.76	C Actual	C Tol. +0.000	D (Ref. Only)	T Min. Allow. Wall Thick
	Actual	Tolerance							
In./DN(mm)	*In./mm*	*+In./mm*	*-In./mm*	*In./mm*	*In./mm*	*In./mm*	*In./mm*	*In./mm*	*In./mm*
1	**1.315**	**+0.028**	**-0.015**	**0.625**	**0.312**	**1.190**	**-0.015**	**0.062**	**0.133**
25	33.4	+0.71	-0.38	15.88	7.92	30.23	-0.38	1.6	3.4
1-1/4	**1.660**	**+0.029**	**-0.016**	**0.625**	**0.312**	**1.535**	**-0.015**	**0.062**	**0.140**
32	42.2	+0.74	-0.41	15.88	7.92	38.99	-0.38	1.6	3.6
1-1/2	**1.900**	**+0.019**	**-0.019**	**0.625**	**0.312**	**1.775**	**-0.015**	**0.062**	**0.145**
40	48.3	+0.48	-0.48	15.88	7.92	45.09	-0.38	1.6	3.7
2	**2.375**	**+0.024**	**-0.024**	**0.625**	**0.312**	**2.250**	**-0.015**	**0.062**	**0.154**
50	60.3	+0.61	-0.61	15.88	7.92	57.15	-0.38	1.6	3.9
2-1/2	**2.875**	**+0.029**	**-0.029**	**0.625**	**0.312**	**2.720**	**-0.018**	**0.078**	**0.187**
65	73.0	+0.74	-0.74	15.88	7.92	69.09	-0.46	2.0	4.8
3	**3.500**	**+0.035**	**-0.031**	**0.625**	**0.312**	**3.344**	**-0.018**	**0.078**	**0.188**
80	88.9	+0.89	-0.79	15.88	7.92	84.94	-0.46	2.0	4.8
3-1/2	**4.000**	**+0.040**	**-0.031**	**0.625**	**0.312**	**3.834**	**-0.020**	**0.083**	**0.188**
90	101.6	+1.02	-0.79	15.88	7.92	97.38	-0.51	2.1	4.8
4	**4.500**	**+0.045**	**-0.031**	**0.625**	**0.375**	**4.334**	**-0.020**	**0.083**	**0.203**
100	114.3	+1.14	-0.79	15.88	9.53	110.08	-0.51	2.1	5.2
5	**5.563**	**+0.056**	**-0.031**	**0.625**	**0.375**	**5.395**	**-0.022**	**0.084**	**0.203**
125	141.3	+1.42	-0.79	15.88	9.53	137.03	-0.56	2.1	5.2
6	**6.625**	**+0.063**	**-0.031**	**0.625**	**0.375**	**6.455**	**-0.022**	**0.085**	**0.219**
150	168.3	+1.60	-0.79	15.88	9.53	163.96	-0.56	2.2	5.6
8	**8.625**	**+0.063**	**-0.031**	**0.750**	**0.437**	**8.441**	**-0.025**	**0.092**	**0.238**
200	219.1	+1.60	-0.79	19.05	11.10	214.40	-0.64	2.3	6.1
10	**10.750**	**+0.063**	**-0.031**	**0.750**	**0.500**	**10.562**	**-0.027**	**0.094**	**0.250**
250	273.1	+1.60	-0.79	19.05	12.70	268.27	-0.69	2.4	6.4
12	**12.750**	**+0.063**	**-0.031**	**0.750**	**0.500**	**12.531**	**-0.030**	**0.109**	**0.279**
300	323.9	+1.60	-0.79	19.05	12.70	318.29	-0.76	2.8	7.1
14 O.D.	**14.000**	**+0.063**	**-0.031**	**0.938**	**0.500**	**13.781**	**-0.030**	**0.109**	**0.281**
355.6	355.6	+1.60	-0.79	23.83	12.70	350.04	-0.76	2.8	7.1
16 O.D.	**16.000**	**+0.063**	**-0.031**	**0.938**	**0.500**	**15.781**	**-0.030**	**0.109**	**0.312**
406.4	406.4	+1.60	-0.79	23.83	12.70	400.84	-0.76	2.8	7.9
18 O.D.	**18.000**	**+0.063**	**-0.031**	**1.000**	**0.500**	**17.781**	**-0.030**	**0.109**	**0.312**
457.2	457.2	+1.60	-0.79	25.40	12.70	451.64	-0.76	2.8	7.9
20 O.D.	**20.000**	**+0.063**	**-0.031**	**1.000**	**0.500**	**19.781**	**-0.030**	**0.109**	**0.312**
508.0	508.0	+1.60	-0.79	25.40	12.70	502.44	-0.76	2.8	7.9
24 O.D.	**24.000**	**+0.063**	**-0.031**	**1.000**	**0.563**	**23.656**	**-0.030**	**0.172**	**0.375**
609.6	609.6	+1.60	-0.79	25.40	14.30	600.86	-0.76	4.4	9.5
28 I.D.	**28.875**	**+0.063**	**-0.031**	**1.000**	**0.563**	**28.531**	**-0.030**	**0.172**	**0.437**
733.4	733.4	+1.60	-0.79	25.40	14.30	724.69	-0.76	4.4	11.1
30 I.D.	**31.000**	**+0.063**	**-0.031**	**1.250**	**.0625**	**30.594**	**-.030**	**0.203**	**0.500**
787.4	787.4	+1.60	-0.79	31.75	15.88	777.09	-0.76	5.2	12.7
30 O.D.	**30.000**	**0.093**	**0.031**	**1.750▼**	**0.625**	**29.500**	**0.063**	**0.250**	**0.625**
762.0	762.0	2.36	0.79	44.45	15.88	749.30	1.60	6.35	15.88



GroovJoint reserves the right to change the contents without notice.

PressJoint Stainless Steel Press Style Fittings

This section displays our complete line of PressJoint products. The innovative stainless steel pipe and pressfit system allows pipe systems to be efficiently installed without welding, while saving the customer valuable time and money.

Primary applications include, but are not limited to: compressed air, heating facilities, sanitation facilities, fire-extinguishing sprinkler systems, solar energy, plumbing, industrial buildings, shipping centers, and mining.

NSF Certified to NSF/ANSI 61

NSF Certified to NSF/ANSI 61-G

FM APPROVED

Press Fitting Recommendations

PressJoint stainless steel fittings are press-style stainless steel fittings offered in sizes ranging from 1/2" to 2" and can be installed on both Schedule 5 and Schedule 10 stainless steel pipe. Our products have a maximum pressure rating of 300 psi (temperature dependent) when installed using an approved press tool.

TECHNICAL DATA

Approvals: PressJoint stainless steel fittings are NSF/ANSI 61 Certified and FM approved.

Working Temperature: Depending on O-Ring seal selection, temperatures range from -22°F to 300°F. Refer to the O-Ring seals below for specific temperature ranges.

Threaded Connections: All threaded connections meet ANSI/ASME B 1.20.1 NPT.

Flange Connections: Flange connections are compatible with ANSI Class 125/150 bolt patterns.

MATERIAL SPECIFICATIONS

Fitting Housing: Stainless Steel per ANSI 316/316L with a wall thickness of 0.059˝ (1.5mm) and the following characteristics:

- Hygienic, as demonstrated in the food, beverage, and pharmaceutical industries
- Less heat conduction than other materials
- The use of molybdenum results in excellent performance in chlorinated environments

Working Pressure: The working pressure range is from full vacuum to 300 psi (21 bar) on Sch. 5 and Sch. 10 stainless steel pipe.

O-Rings: O-Ring style gaskets are resistant to hot water, aging, and additives commonly used in drinking water.

- **EPDM Grade "E"**
  –4°F to 230°F (-20°C to 110°C). For cold and hot water, heating systems, oil-free compressed air systems and many chemical services. Excellent oxidation resistance. NOT FOR USE WITH HYDROCARBONS.

- **Nitrile (NBR, Buna) Grade "T"**
  -13°F to 230°F (-25°C to 110°C). Petroleum products (except diesel). vegetable oils, mineral oils, and compressed air with oils. NOT FOR USE WITH HOT WATER OR HOT DRY AIR.

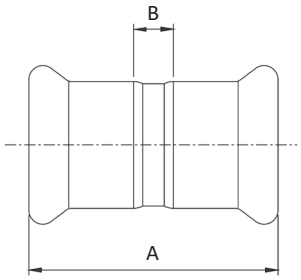
- **Fluoroelastomer (Viton, FKM) Grade "O"**
  -4°F to 356°F (-20°C to 180°C). Hydraulic fluids, process water, chlorinated hydrocarbons and oxidizing acids. NOT FOR USE WITH AMMONIA.

Product Code Detail

PJ	E	90	100
Prefix	Gasket	Item Code	Pipe Diameter

Stainless Steel Press Coupling

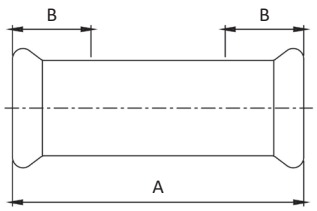
PJECOUP



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 15	**0.840** 21	**2.1** 53	**0.4** 11	**0.13** 0.1
3/4 20	**1.050** 27	**2.3** 59	**0.4** 11	**0.18** 0.1
1 25	**1.315** 33	**2.5** 63	**0.4** 11	**0.23** 0.1
1-1/2 40	**1.900** 48	**2.8** 72	**0.4** 11	**0.40** 0.2
2 50	**2.375** 60	**4.1** 103	**0.5** 13	**0.74** 0.3

Stainless Steel Press Slip Coupling

PJESCOUP



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 15	**0.840** 21	**3.0** 75	**0.8** 21	**0.18** 0.1
3/4 20	**1.050** 27	**3.4** 86	**1.0** 24	**0.25** 0.1
1 25	**1.315** 33	**3.8** 97	**1.0** 26	**0.34** 0.2
1-1/2 40	**1.900** 48	**4.8** 122	**1.2** 30	**0.63** 0.3
2 50	**2.375** 60	**6.8** 172	**1.8** 45	**1.13** 0.5

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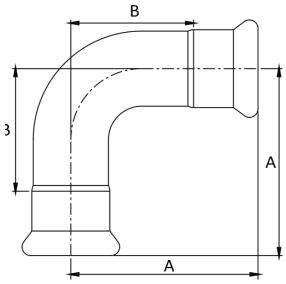
Stainless Steel Press 90° Elbow

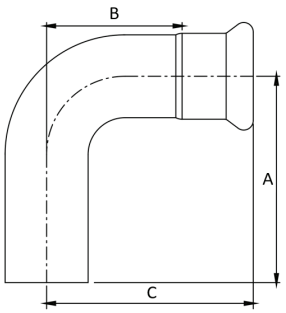
PJE90



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 15	**0.840** 21	**2.4** 61	**1.6** 40	**0.22** 0.1
3/4 20	**1.050** 27	**2.8** 72	**1.9** 48	**0.33** 0.2
1 25	**1.315** 33	**3.4** 86	**2.4** 60	**0.48** 0.2
1-1/2 40	**1.900** 48	**3.8** 96	**2.6** 65	**0.79** 0.4
2 50	**2.375** 60	**5.0** 127	**3.2** 82	**1.39** 0.6

Stainless Steel Press 90° Street Elbow

PJE90M



Pipe Size		Dimensions			Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	
1/2 15	**0.840** 21	**2.9** 73	**1.6** 40	**2.4** 61	**0.24** 0.1
3/4 20	**1.050** 27	**3.3** 83	**1.9** 48	**2.8** 72	**0.33** 0.2
1 25	**1.315** 33	**3.9** 99	**2.4** 60	**3.4** 86	**0.37** 0.2
1-1/2 40	**1.900** 48	**4.1** 103	**2.5** 63	**3.7** 94	**0.77** 0.4
2 50	**2.375** 60	**5.5** 140	**3.2** 82	**5.0** 127	**1.34** 0.6

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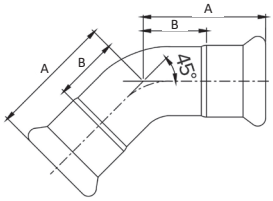
Stainless Steel Press 45° Elbow

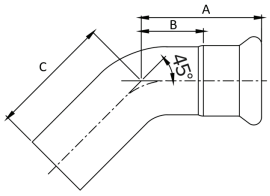
PJE45



Pipe Size		Dimensions		Weight
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	lbs *kg*
1/2 15	**0.840** 21	**1.6** 41	**0.8** 20	**0.18** 0.1
3/4 20	**1.050** 27	**1.9** 47	**0.9** 23	**0.24** 0.2
1 25	**1.315** 33	**2.1** 54	**1.1** 29	**0.37** 0.2
1-1/2 40	**1.900** 48	**2.4** 60	**1.2** 30	**0.59** 0.3
2 50	**2.375** 60	**3.2** 82	**1.5** 38	**1.06** 0.5

Stainless Steel Press 45° Street Elbow

PJE45M



Pipe Size		Dimensions			Weight
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	lbs *kg*
1/2 15	**0.840** 21	**1.6** 41	**0.8** 20	**2.1** 53	**0.20** 0.1
3/4 20	**1.050** 27	**1.9** 47	**0.9** 23	**2.3** 58	**0.26** 0.2
1 25	**1.315** 33	**2.1** 54	**1.1** 29	**2.7** 67	**0.37** 0.2
1-1/2 40	**1.900** 48	**2.4** 60	**1.2** 30	**2.7** 70	**0.60** 0.3
2 50	**2.375** 60	**3.2** 82	**1.5** 38	**3.8** 95	**1.06** 0.5

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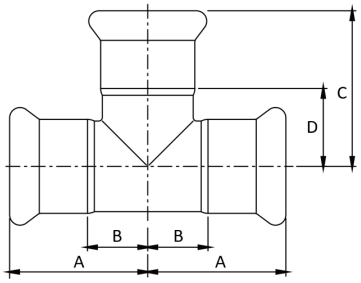
Stainless Steel Press Tee

PJET



Pipe Size		Dimensions				Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	D in *mm*	
1/2 15	**0.840** 21	**1.5** 38	**0.6** 16	**1.6** 42	**0.8** 20	**0.24** 0.1
3/4 20	**1.050** 27	**1.7** 43	**0.8** 19	**1.9** 47	**0.9** 23	**0.33** 0.2
1 25	**1.315** 33	**1.9** 49	**0.9** 23	**2.1** 54	**1.1** 28	**0.46** 0.2
1-1/2 40	**1.900** 48	**2.8** 71	**1.6** 41	**2.6** 67	**1.4** 36	**0.92** 0.4
2 50	**2.375** 60	**3.4** 86	**1.6** 41	**3.4** 86	**1.6** 41	**1.48** 0.7

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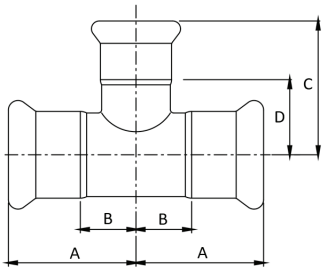
Stainless Steel Press Reducing Tee

PJET



Pipe Size		Dimensions				Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	D in *mm*	
3/4 x 1/2 x 3/4 20 x 15 20	**1.05 x 0.84 x 1.05** 27 x 21 x 27	**1.7** 43	**0.8** 19	**1.7** 44	**0.9** 23	**0.31** 0.1
1 x 1/2 x 1 25 x 15 x 25	**1.32 x 0.84 x 1.32** 33 x 21 x 33	**1.9** 49	**0.9** 23	**1.9** 48	**1.1** 27	**0.40** 0.2
1 x 3/4 x 1 25 x 20 x 25	**1.32 x 1.05 x 1.32** 33 x 27 x 33	**1.9** 49	**0.9** 23	**2.0** 51	**1.1** 27	**0.42** 0.2
1-1/2 x 1/2 x 1-1/2 40 x 15 x 40	**1.90 x 0.84 x 1.90** 48 x 21 x 48	**2.8** 71	**1.6** 40	**2.2** 56	**1.4** 34	**0.79** 0.4
1-1/2 x 3/4 x 1-1/2 40 x 20 x 40	**1.90 x 1.05 x 1.90** 48 x 27 x 48	**2.8** 71	**1.6** 40	**2.3** 59	**1.4** 35	**0.81** 0.4
1-1/2 x 1 x 1-1/2 40 x 25 x 40	**1.90 x 1.32 x 1.90** 48 x 33 x 48	**2.8** 71	**1.6** 40	**2.5** 62	**1.4** 36	**0.84** 0.4
2 x 1/2 x 2 50 x 15 x 50	**2.38 x 0.84 x 2.38** 60 x 21 x 60	**3.4** 86	**1.6** 41	**2.4** 62	**1.6** 41	**1.17** 0.5
2 x 3/4 x 2 50 x 20 x 50	**2.38 x 1.05 x 2.38** 60 x 27 x 60	**3.4** 86	**1.6** 41	**2.6** 65	**1.6** 41	**1.19** 0.5
2 x 1 x 2 50 x 25 x 50	**2.38 x 1.32 x 2.38** 60 x 33 x 60	**3.4** 86	**1.6** 41	**2.6** 67	**1.6** 41	**1.23** 0.6
2 x 1-1/2 x 2 50 x 40 x 50	**2.38 x 1.90 x 2.38** 60 x 48 x 60	**3.4** 86	**1.6** 41	**2.8** 72	**1.6** 41	**1.32** 0.6

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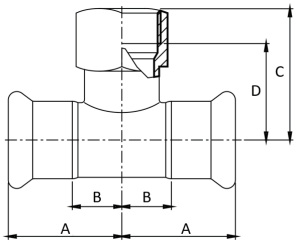
Stainless Steel Press Reducing Tee FPT Branch

PJEFT



Pipe Size		Dimensions				Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	D in *mm*	
1/2 x 1/2 x 1/2	**0.84 x 0.84 x 0.84**	**1.5**	**0.6**	**1.5**	**0.9**	**0.26**
15 x 15 x 15	21 x 21 x 21	38	16	39	24	0.1
1/2 x 3/4 x 1/2	**0.84 x 1.05 x 0.84**	**1.5**	**0.6**	**1.8**	**1.3**	**0.37**
15 x 20 x 15	21 x 27 x 21	38	16	47	33	0.2
3/4 x 1/2 x 3/4	**1.05 x 0.84 x 1.05**	**1.7**	**0.8**	**1.6**	**1.0**	**0.33**
20 x 15 x 20	27 x 21 x 27	43	19	41	26	0.2
3/4 x 3/4 x 3/4	**1.05 x 1.05 x 1.05**	**1.7**	**0.8**	**1.8**	**1.3**	**0.40**
20 x 20 x 20	27 x 27 x 27	43	19	46	32	0.2
3/4 x 1 x 3/4	**1.05 x 1.32 x 1.05**	**1.7**	**0.8**	**2.0**	**1.3**	**0.46**
20 x 25 x 20	27 x 33 x 27	43	19	50	33	0.2
1 x 1/2 x 1	**1.32 x 0.84 x 1.32**	**1.9**	**0.9**	**1.8**	**1.1**	**0.42**
25 x 15 x 25	33 x 21 x 33	49	23	45	28	0.2
1 x 3/4 x 1	**1.32 x 1.05 x 1.32**	**1.9**	**0.9**	**1.9**	**1.3**	**0.48**
25 x 20 x 25	33 x 27 x 33	49	23	49	32	0.2
1 x 1 x 1	**1.32 x 1.32 x 1.32**	**1.9**	**0.9**	**2.0**	**1.2**	**0.65**
25 x 25 x 25	33 x 33 x 33	49	23	51	31	0.3
1-1/2 x 1/2 x 1-1/2	**1.90 x 0.84 x 1.90**	**2.8**	**1.6**	**2.1**	**1.5**	**0.85**
40 x 15 x 40	48 x 21 x 48	71	40	53	38	0.4
1-1/2 x 3/4 x 1-1/2	**1.90 x 1.05 x 1.90**	**2.8**	**1.6**	**2.3**	**1.7**	**0.91**
40 x 20 x 40	48 x 27 x 48	71	40	57	43	0.4
1-1/2 x 1 x 1-1/2	**1.90 x 1.32 x 1.90**	**2.8**	**1.6**	**2.3**	**1.6**	**1.03**
40 x 25 x 40	48 x 33 x 48	71	40	58	40	0.5
1-1/2 x 1-1/2 x 1-1/2	**1.90 x 1.90 x 1.90**	**2.8**	**1.6**	**2.6**	**1.7**	**1.27**
40 x 40 x 40	48 x 48 x 48	71	40	66	44	0.6
2 x 1/2 x 2	**2.38 x 0.84 x 2.38**	**3.4**	**1.6**	**2.3**	**1.7**	**1.19**
50 x 15 x 50	60 x 21 x 60	86	41	59	44	0.5
2 x 3/4 x 2	**2.38 x 1.05 x 2.38**	**3.4**	**1.6**	**2.5**	**2.0**	**1.26**
50 x 20 x 50	60 x 27 x 60	86	41	64	50	0.6
2 x 1 x 2	**2.38 x 1.32 x 2.38**	**3.4**	**1.6**	**2.5**	**1.8**	**1.32**
50 x 25 x 50	60 x 33 x 60	86	41	64	47	0.6
2 x 2 x 2	**2.38 x 2.38 x 2.38**	**3.4**	**1.6**	**3.2**	**2.1**	**1.90**
50 x 50 x 50	60 x 60 x 60	86	41	81	54	0.9

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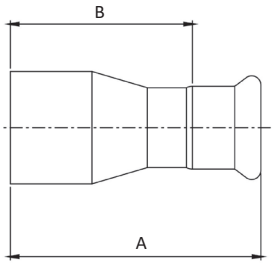
Stainless Steel Press Reducer

PJEFP



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
3/4 x 1/2	**1.05 x 0.84**	**3.0**	**2.2**	**0.18**
20 x 15	27 x 21	77	56	0.1
1 x 1/2	**1.32 x 0.84**	**3.3**	**2.4**	**0.23**
25 x 15	33 x 21	83	62	0.1
1 x 3/4	**1.32 x 1.05**	**3.8**	**2.8**	**0.26**
25 x 20	33 x 27	96	71	0.1
1-1/2 x 1/2	**1.90 x 0.84**	**3.5**	**2.6**	**0.33**
40 x 15	48 x 21	88	67	0.1
1-1/2 x 3/4	**1.90 x 1.05**	**3.6**	**2.6**	**0.55**
40 x 20	48 x 27	90	66	0.2
1-1/2 x 1	**1.90 x 1.32**	**4.3**	**3.2**	**0.39**
40 x 25	48 x 33	108	82	0.2
2 x 1/2	**2.38 x 0.84**	**4.2**	**3.3**	**0.53**
50 x 15	60 x 21	106	85	0.2
2 x 3/4	**2.38 x 1.05**	**4.3**	**3.3**	**0.35**
50 x 20	60 x 27	108	84	0.2
2 x 1	**2.38 x 1.05**	**4.3**	**3.3**	**0.57**
50 x 25	60 x 33	110	84	0.3
2 x 1-1/2	**2.38 x 1.90**	**4.8**	**3.6**	**0.72**
50 x 40	60 x 48	121	91	0.3

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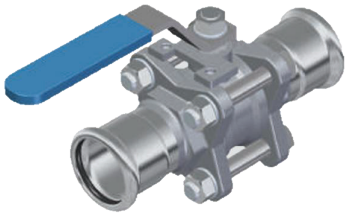
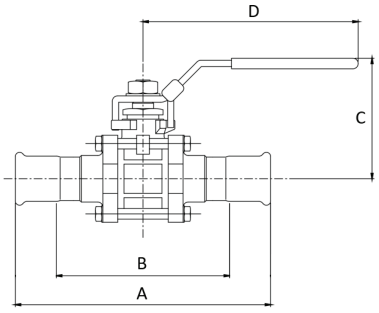
Stainless Steel Press Ball Valve

PJEVLV





Pipe Size		Dimensions				Weight lbs *mm*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	C in *mm*	D in *mm*	
1/2	**0.840**	**5.0**	**3.3**	**2.2**	**3.7**	**1.24**
15	21	127	85	55	95	0.6
3/4	**1.050**	**5.5**	**3.6**	**2.5**	**4.3**	**1.73**
20	27	139	91	63	110	0.8
1	**1.315**	**6.1**	**4.0**	**2.9**	**5.3**	**2.46**
25	33	154	102	74	135	1.1
1-1/2	**1.900**	**7.1**	**5.0**	**3.6**	**6.6**	**5.93**
40	48	181	126	92	168	2.7
2	**2.375**	**9.4**	**5.8**	**4.2**	**7.1**	**8.48**
50	60	238	148	107	180	3.8

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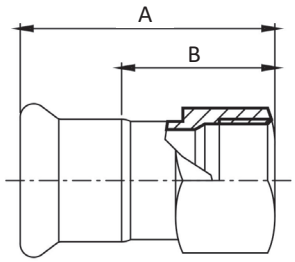
Stainless Steel Press Female Adaptor

PJEFA



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 x 1/2 15 x 15	**0.84 x 0.84** 21 x 21	**2.2** 55	**1.3** 34	**0.20** 0.1
1/2 x 3/4 15 x 20	**0.84 x 1.05** 21 x 27	**2.4** 62	**1.6** 41	**0.28** 0.1
1/2 x 1 15 x 25	**0.84 x 1.32** 21 x 33	**2.6** 65	**1.7** 44	**0.43** 0.2
3/4 x 1/2 20 x 15	**1.05 x 0.84** 26.7 x 21	**2.5** 63	**1.5** 39	**0.32** 0.2
3/4 x 3/4 20 x 20	**1.05 x 1.05** 27 x 27	**2.5** 63	**1.5** 39	**0.28** 0.1
3/4 x 1 20 x 25	**1.05 x 1.32** 27 x 33	**2.6** 66	**1.6** 42	**0.43** 0.2
1 x 1/2 25 x 15	**1.32 x 0.84** 33 x 21	**2.6** 65	**1.5** 39	**0.50** 0.2
1 x 3/4 25 x 20	**1.32 x 0.84** 33 x 21	**2.6** 65	**1.5** 39	**0.43** 0.2
1 x 1 25 x 25	**1.32 x 1.32** 33 x 33	**2.6** 65	**1.5** 39	**0.43** 0.2
1 x 1-1/2 25 x 40	**1.32 x 1.90** 33 x 48	**3.1** 80	**2.1** 54	**0.80** 0.4
1-1/2 x 1 40 x 25	**1.90 x 1.32** 48 x 33	**3.1** 78	**1.9** 47	**1.26** 0.6
1-1/2 x 1-1/2 40 x 40	**1.90 x 1.90** 48 x 48	**3.1** 77	**1.9** 47	**0.64** 0.3
1-1/2 x 2 40 x 50	**1.90 x 2.38** 48 x 60	**3.7** 93	**2.5** 62	**1.21** 0.5
2 x 1-1/2 50 x 40	**2.38 x 1.90** 60 x 48	**3.9** 99	**2.1** 54	**1.83** 0.8
2 x 2 50 x 50	**2.38 x 2.38** 60 x 60	**3.9** 100	**2.2** 55	**1.04** 0.5

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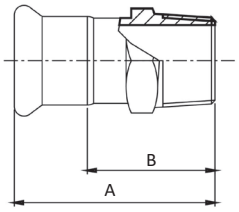
Stainless Steel Press Male Adaptor

PJEMA



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 x 1/2 15 x 15	**0.84 x 0.84** 21 x 21	**2.2** 56	**1.4** 35	**0.15** 0.1
1/2 x 3/4 15 x 20	**0.84 x 1.05** 21 x 27	**2.3** 58	**1.5** 37	**0.20** 0.1
1/2 x 1 15 x 25	**0.84 x 1.32** 21 x 33	**2.4** 62	**1.6** 41	**0.34** 0.2
3/4 x 1/2 20 x 15	**1.05 x 0.84** 27 x 21	**2.4** 60	**1.4** 36	**0.22** 0.1
3/4 x 3/4 20 x 20	**1.05 x 1.05** 27 x 27	**2.4** 62	**1.5** 38	**0.21** 0.1
3/4 x 1 20 x 25	**1.05 x 1.32** 27 x 33	**2.6** 65	**1.6** 41	**0.29** 0.1
1 x 3/4 25 x 20	**1.32 x 1.05** 33 x 27	**2.5** 64	**1.5** 38	**0.28** 0.1
1 x 1 25 x 25	**1.32 x 1.32** 33 x 33	**2.6** 67	**1.6** 41	**0.32** 0.3
1 x 1-1/2 25 x 40	**1.32 x 1.90** 33 x 48	**2.7** 70	**1.7** 44	**0.58** 0.3
1-1/2 x 3/4 40 x 20	**1.90 x 1.05** 48 x 27	**2.8** 71	**1.6** 40	**0.55** 0.3
1-1/2 x 1 40 x 25	**1.90 x 1.32** 48 x 33	**2.9** 74	**1.7** 43	**0.62** 0.3
1-1/2 x 1-1/2 40 x 40	**1.90 x 1.90** 48 x 48	**2.9** 74	**1.7** 44	**0.64** 0.3
2 x 1-1/2 50 x 40	**2.38 x 1.90** 60 x 48	**3.5** 88	**1.7** 43	**0.94** 0.4
2 x 2 50 x 50	**2.38 x 2.38** 60 x 60	**3.8** 96	**2.0** 51	**1.04** 0.5

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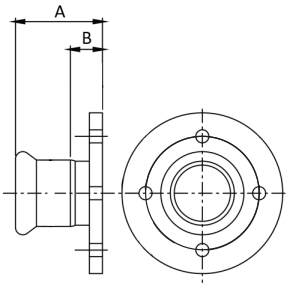
Stainless Steel Press Flange

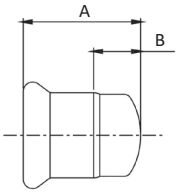
PJEF



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 15	**0.840** 21	**1.9** 47	**1.0** 26	**0.84** 0.4
3/4 20	**1.050** 27	**2.2** 56	**1.3** 32	**1.28** 0.6
1 25	**1.315** 33	**2.5** 64	**1.5** 38	**1.77** 0.8
1-1/2 40	**1.900** 48	**3.4** 87	**2.2** 56	**2.90** 1.3
2 50	**2.375** 60	**4.7** 120	**2.9** 75	**4.65** 2.1

Stainless Steel Press Cap

PJEP



Pipe Size		Dimensions		Weight lbs *kg*
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	
1/2 15	**0.840** 21	**1.7** 43	**0.9** 22	**0.09** 0.1
3/4 20	**1.050** 267	**1.7** 43	**0.8** 19	**0.13** 0.1
1 25	**1.315** 33	**1.9** 47	**0.8** 21	**0.18** 0.1
1-1/2 40	**1.900** 48	**2.2** 55	**1.0** 24	**0.33** 0.1
2 50	**2.375** 60	**2.9** 73	**1.1** 28	**0.55** 0.2

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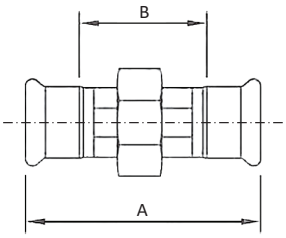
Stainless Steel Press Union

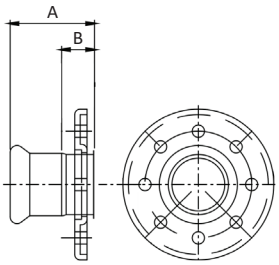
PJEU



Pipe Size		Dimensions		Weight lbs kg
Nominal in mm	O.D. in mm	A in mm	B in mm	
1/2 15	**0.840** 21	**3.9** 100	**2.3** 58	**0.62** 0.3
3/4 20	**1.050** 27	**4.5** 115	**2.6** 67	**0.82** 0.4
1 25	**1.315** 33	**4.8** 121	**2.7** 69	**0.97** 0.4
1-1/2 40	**1.900** 48	**6.3** 160	**3.9** 99	**2.36** 1.1
2 50	**2.375** 60	**8.3** 210	**4.7** 120	**3.70** 1.7

Stainless Steel Press Van Stone Flange

PJEVF



Pipe Size		Dimensions		Weight lbs kg
Nominal in mm	O.D. in mm	A in mm	B in mm	
1/2 15	**0.840** 21	**3.1** 78	**2.2** 57	**0.95** 0.4
3/4 20	**1.050** 27	**3.2** 81	**2.2** 57	**1.39** 0.6
1 25	**1.315** 33	**3.3** 83	**2.2** 57	**1.84** 0.8
1-1/2 40	**1.900** 48	**3.5** 88	**2.2** 57	**2.98** 1.4
2 50	**2.375** 60	**4.5** 115	**2.8** 70	**4.79** 2.2

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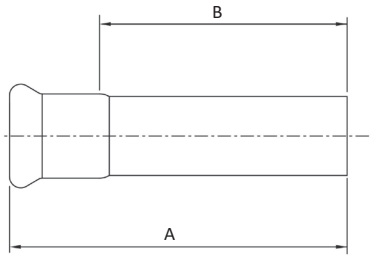
GroovJoint reserves the right to change the contents without notice.

Stainless Steel Press Weld Adaptor

PJEWA



Pipe Size		Dimensions		Weight
Nominal in *mm*	O.D. in *mm*	A in *mm*	B in *mm*	lbs *kg*
1/2 15	**0.840** 21	**5.1** 130	**4.0** 102	**0.25** 0.1
3/4 20	**1.050** 27	**5.3** 134	**4.0** 102	**0.33** 0.2
1 25	**1.315** 33	**5.3** 136	**4.0** 102	**0.42** 0.2
1-1/2 40	**1.900** 48	**5.5** 140	**4.0** 102	**0.65** 0.3
2 50	**2.375** 60	**6.1** 155	**4.0** 102	**0.92** 0.4

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M18™ Force Logic Press Tool

Kit Options
Tool Only: 2773-20L
Tool w/ 1/2"-1" Jaws: 2773-22L
Tool w/ 1/2"-2" Jaws: 2773-22

M18™ FORCE LOGIC™ Long Throw Press Tool 1/2"-1" SS Kit

Designed to press GroovJoint stainless steel press fittings onto sch. 5 or sch. 10 pipe. An adjustable stroke length delivers optimized cycle time on 1/2"-2" stainless steel press connections. The press tool's in-line design offers unrivaled access for navigating around installed pipes, while also delivering on the highest level of press accuracy and reliability, the cordless press tool will operate 50,000 cycles before calibration is needed, delivering the longest calibration interval in the industry and keeping the tool on the job to maximize your return on investment.

1/2": 49-16-2650S

3/4": 49-16-2651S

1": 49-16-2652S

1-1/2"-2" IPS Ring Kit

Needed to press fittings 1-1/2 and 2″ with the M18™ FORCE LOGIC™ Long Throw Press Tool. 2-hinge design 1-1/2″ and 2″ jaws require the ring adapter jaw to press fittings.

1-1/2": 49-16-2655S

2": 49-16-2654S

Ring Jaw: 49-16-2659S

Specifications			
Voltage	18V	**Weight**	10.1 lbs.
Battery	M18™ REDLITHIUM™	**Width**	4.8"
Charger	M18™ and M12™ Multi-Voltage Charger	**Force**	7,200 lbs.
Tool Warranty	5 years	**Jaw Warranty**	2 years
Battery Warranty	3 years	**Jaw Capacity**	½″ – 2″ SS Fitting
Length	20.1"	**Approximate Cycle Time**	5 seconds and 10 seconds at full stroke

This tool is the only tool authorized by GroovJoint to be used with the GroovJoint press system.

TUF-LUBE™ Grooved Coupling Gasket Grease

Tuf-Lube is a mixed fatty acid soap dispersed in glycols and water solvents with a clay pigment filler.

It resists evaporation and will not freeze.

Mating of abutting pipes forces the gel into the cavity, thus providing the needed lubrication to complete coupling and seal the joint.

The soap lubricant does not dry out when gaskets are stored in sealed plastic containers or bags.

- Tuf Lube maintains its soft paste consistency and amber/tan color.
- Can be used from -10°F to 150°F.
- Can be used on all types of pipe including asbestos cement, cast iron, concrete, plastic and clay pipe.
- Will not deteriorate natural rubber, synthetic rubber or plastic gaskets.
- Tuf-Lube is certified to meet NSF code 61 standards for potable water system uses.
- Strict analytical standards and formula consistency are used to assure production of a safe lubricant for water pipe joining needs.
- Environmentally friendly raw materials common in the soap and lubricants industry are used in producing Tuf-Lube.
- Will not irritate the hands and is not toxic.
- Contains no petroleum oils or phosphates.
- Contains no silicone.
- Manufactured in the USA.
- VOC Content: Minimal (2%)
- Available in 1 quart tub (#1010031) and 55-gallon drum (#1010033).

The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. GroovJoint cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products, methods of use, or preparation prior to use, mentioned in our literature. It is the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

Appearance (neat)	Soft Amber Paste/Bland Odor
ph (1%)	9.5
Bulk Density	9.3 lb/gal
Free Fatty Acid	1-3%
Total Alkalinity	100 mg KOH/g equivalent
Penetration	300-350 1/10mm @ 77°F 200-250 1/10mm @ 0°F

Data Sheets

Data Sheets are available upon request or via www.groovjoint.com.

Terms & Conditions of Sale

These terms and conditions shall apply to any purchase order or sales of GroovJoint products.
No alteration, modification or waiver of these terms and conditions whether on Customer's purchase order or otherwise shall be valid unless the alteration, modification or waiver is specifically accepted inwriting by an authorized representative of GroovJoint.

TERMS OF PAYMENT: As stated on invoice.

MINIMUM INVOICE CHARGES: $50.00 for any single order.

RETURNS: Orders cannot be canceled without written authorization. No material can be returned without our written approval. Restocking fees may apply.

SHIPPING TERMS: F.O.B. shipping point- freight prepaid and allowed on single orders having a net price value of $9,000 or more, for shipment at one time to one destination, as determined by GroovJoint within the continental United States, excluding Alaska, Hawaii, Puerto Rico and U.S. possessions.

Shipping on orders less than net price value of $9,000, F.O.B. shipping point will be paid by the customer. The cost of any special packaging or handling that has been requested by the customer, and is not part of our normal handling methods, will be added to the order and paid by the customer.

GroovJoint will make every effort to ship by the scheduled delivery date but reserves the right to ship within a reasonable period thereafter. GroovJoint shall not be held liable for any kind of damages, including but not limited to incidental or consequential damages for lost revenue or lost sales or liquidated damages, directly or indirectly arising from delays or failure to meet shipping dates.

Orders, when accepted, cannot be canceled without our written consent. No material will be taken back without our written consent. Orders for non-standard (i.e. non-cancellable/non-returnable) material may not be canceled nor will GroovJoint accept return of such material for credit.

Claims for corrections must be made within 10 days of receipt of goods. Carriers are responsible for goods lost, damaged or delayed in transit. For your own protection, have Transportation Company's agent verify damages, shortages or delays and note them on freight bill.

WARRANTY: We warrant all products to be free from defects in materials and workmanship under normal conditions of use and service. Our obligation under this warranty is limited to repairing or replacing at our option at our factory any product which shall within one year after delivery to original buyer be returned with transportation charges prepaid, and which our examination shall show to our satisfaction to have been defective.

This warranty is made expressly in lieu of any other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose. The buyer's sole and exclusive remedy shall be for the repair or replacement of defective products as provided herein. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property or any other incidental or consequential loss) shall be available to him.

GroovJoint neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of such products.

This warranty shall not apply to any product which has been subject to negligence, misuse, or accident, which has been repaired or altered in any manner outside of GroovJoint's facilities or which has been used in a manner contradictory to GroovJoint's instructions or recommendations. GroovJoint shall not be responsible for design errors due to inaccurate or incomplete information supplied by Buyer or its representatives.

Notes

GroovJoint™

Corporate Office:
PO Box 11535
Green Bay, WI 54307
312-803-2627
sales@groovjoint.com
www.groovjoint.com