



STYLE 600 FLUE DUCT EXPANSION JOINTS and NAVY FAN CONNECTORS



Style 600 Rubber Flue Duct Expansion Joints and Navy Fan Connectors are designed to handle hot air or gasses in industrial duct work, as well as those generated by power plant and pollution control equipment. They are custom constructed of rubber and fabric to absorb thermal movements and vibration in duct work and to aid in the elimination of noises caused by scrubber equipment and mechanical dust collectors.

MIGHTY-SPAN is capable of handling any combination of large movements which might occur in a ducting system due to thermal expansion. MIGHTY-SPAN creates almost no load on damper and fan interfacing flanges, thus providing much needed protection in these critical areas.

A wide range of elastomers and fabric substrates are available to provide maximum resistance to corrosion and high temperature capabilities. Let UNAFLEX® assist you in selecting the MIGHTY-SPAN product for your application.

Available in a wide choice of materials and [Drill Patterns](#)

Style 600 joints may be constructed of *Nomex® (to 400°F), fiberglass or polyester cloth impregnated with one of the following:

- **Neoprene:** Resistant to heat, adverse weather conditions, ozone and flue gases. Impervious to fats, oils, greases and other petroleum products. Recommended for use up to 250°F).
- **Chlorobutyl:** An elastomer with all of the above advantages of neoprene with the exception of its inability to withstand oil. Designed for 300°F environments.
- ***Viton®:** In addition to providing all of the properties of Neoprene, Viton® is highly resistant to mineral acids and usable in 400°F applications
- **Silicone:** A high-quality elastomer, recommended for all environments except those with sulfur gas (SO₂ or SO₃). Usable in -70 to 500°F applications.





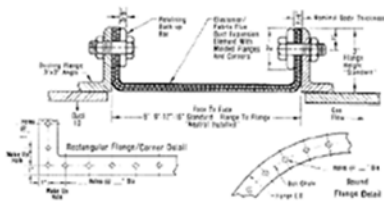
Configurations

Square, rectangular or round shapes can be produced in almost any size. Standard construction is "U" shape with a 9-inch face-to-face dimension, with a 3-inch flange (other face-to-face dimensions available).

Arch shapes also available. Body thickness of this one-piece molded joint is a nominal 5/16 inch. Extra liners are usually not required, but may be ordered if necessary.



Typical Installation Arrangement



NAVY Fan Flex Connector, A11, 31 1/4" Dia ID 35 5/8" OD, 44 Ea 9/16"

Environmental Conditions			
Elastomer	Usable to °F	Recommended for Use In	
		Oils, Grease	Ozone & Flue Gases
Neoprene	250	good	good
Chlorobutyl	300	--	good
*Viton®	400	good	good
Silicone	500	good	--

Recommended Service

Pressure	to 3.0 PSIG, max.
Vacuum	6.12" Hg, 83" Hg
Compression*	2"
Extension*	1/2"
Transverse	1-1/2"

*U-Type compression and elongation formulas.

1. Lateral Elongation= 2 lbs. per foot of perimeter per 1/16" of movement. For example: 2' x 2' I.D.= 8' perimeter deflection= 1" = 16/16. 2 lbs. x 8" x 16"=256 lbs.
2. Axial Compression = 2.2 lbs. per foot of perimeter per 1/16" of movement. For example: 2' x 2' I.D. = 8' perimeter deflection = 1" = 16/16. 2.2 lbs. x 8" x 16" = 282 lbs.



ROUND / STANDARD SIZE: 3" F to F

FAN SIZE	ID	OD	BC	# HOLES	HOLE SIZE
A 1/4	9-3/4	12-3/4	11-3/4	12	7/16"
A 1/2	10-1/2	13-1/4	12-1/8	14	9/16"
A 1	12-3/4	16	14-3/4	16	9/16"
A 1-1/2	14-1/4	17-1/2	16	20	9/16"
A 2	15-1/2	18-7/8	17-1/2	18	9/16"
A 2-1/2	15-1/2	18-7/8	17-1/2	18	9/16"
A 3	21-1/8	24-5/8	23-1/4	24	9/16"
A 3-1/2	22-1/8	25-7/8	24-1/2	24	9/16"
A 4	22-1/8	25-7/8	24-1/2	24	9/16"
A 4-1/2	18	21-1/4	19-3/4	24	9/16"
A 5	23-1/4	26-9/16	25-1/4	26	9/16"
A 6	25-1/8	28-5/8	27-1/4	30	9/16"
A 7	19-1/2	22-3/4	21-1/4	28	9/16"
A 8	27-1/4	30-9/16	29-1/4	30	9/16"
A 10	29-1/4	32-5/8	31-1/4	32	9/16"
A 11	31-1/4	35-5/8	33-5/16	36	9/16"
A 12	29-1/4	32-5/8	31-1/4	32	9/16"
A 16	31-1/4	35-5/8	33-5/16	36	9/16"
A 17	34-1/4	38-5/8	36-5/8	44	9/16"
A 20	36	39-7/16	38	40	9/16"
A 25	42-1/4	45-9/16	44-5/16	46	9/16"
A 28	36	40-3/8	38	40	9/16"
A 30	44-1/4	49-3/8	46-5/16	48	9/16"
CC 1/4	6	9	-	-	-
CC 1/2	9-5/8	12-7/8	11-1/8	12	9/16"
CC 1	11-1/4	14-1/4	12-3/4	16	9/16"
CC 1-1/2	18-1/4	21-1/4	19-3/4	20	9/16"



ROUND / STANDARD SIZE: 3" F to F

FAN SIZE	ID	OD	BC	# HOLES	HOLE SIZE
CC 2	19-3/8	22-3/8	20-7/8	24	9/16"
CC 3	22-3/4	25-3/4	25	28	9/16"
CC 4	24-1/2	27-1/2	26	28	9/16"
CC 5	24-1/2	27-1/2	26	28	9/16"
CC 6	33	36	34-1/2	36	9/16"
CC 8	36-7/8	39-7/8	38-3/8	40	9/16"
CC 10	36-7/8	39-7/8	38-3/8	44	9/16"
C 1/2	8-1/4	11-1/4	-	-	-
C 1	8-1/4	11-1/4	-	-	-
C 2	15	18	-	-	-
C 3	18-1/2	21-1/2	-	-	-
C 4	20-3/4	23-3/4	-	-	-
C 5	21-1/2	24-1/2	-	-	-
C 6	26-5/8	29-5/8	-	-	-
C 8	28-1/2	31-1/2	-	-	-
C 10	28	31	-	-	-
A 101	20-1/8	23-9/16	22-1/4	24	9/16"
A 102	21-1/8	24-9/16	23-1/4	24	9/16"
A 103	21-1/8	24-9/16	23-1/4	24	9/16"
A 104	21-1/8	24-9/16	23-1/4	24	9/16"

MATERIAL SPEC

3/16" NEOPRENE w/ POLYESTER FABRIC REINFORMENT

CONFORMS TO MIL-R-6855, CLASS 2, 40 DUROMETER

3" F to F U-TYPE / 6" F to F SINGLE ARCH and DOUBLE ARCH

RECTANGULAR / STANDARD SIZE: 3" F to F

FAN SIZE	ID	ID	OD	OD
CC 1/4	6	5	9	8
CC 1/2	11-1/4	4-7/16	14-1/4	7-7/16
CC 1	11-13/16	6-1/8	14-13/16	9-1/8
CC 1-1/2	14-3/4	10-5/8	17-3/4	13-5/8
CC 2	16-3/8	11-3/4	19-3/8	14-3/4
CC 3	20	12-1/8	23	15-1/8
CC 4	21-3/4	13-1/4	24-3/4	16-1/4
CC 5	21-3/4	14-1/8	24-3/4	17-1/8
CC 6	29-1/4	18-3/8	32-1/4	21-3/8
CC 10	32-1/4	20-7/8	35-1/4	23-7/8
C 1/2	6-1/4	5-3/8	9-1/4	8-3/8
C 1	7-3/4	9-5/8	10-3/8	12-5/8
C 2	9-1/2	15	12-1/2	18
C 3	14	15-7/8	17	18-7/8
CC 1/2	4-3/16	11	7-3/16	14
CC 1	11-9/16	5-7/8	14-9/16	8-7/8
CC 1-1/2	10-3/8	14-1/2	13-3/8	17-1/2
CC 2	16-1/8	11-1/2	19-1/8	14-1/2
CC 3	11-3/4	19-3/8	14-3/4	22-3/8
CC 4	12-7/8	21-1/2	15-7/8	24-1/2
CC 5	13-3/4	21-1/2	16-3/4	24-1/2
CC 6	18	29	21	32
CC 8	19-3/8	32-1/4	22-3/8	35-1/4
CC 10	20-9/16	32-1/4	23-9/16	35-1/4



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