

# ENGINE EXHAUST SYSTEMS

LOW PRESSURE PIPING PRODUCTS



CATERPILLAR • CUMMINS • DETROIT DIESEL • WAUKESHA • VOLVO • JOHN DEERE • KOHLER •  
PERKINS • EMD • WHITE SUPERIOR • NORDBERG • DEUTZ • MTU • ONAN • WARTSILLA  
MITSUBISHI • YANMAR • ALCO • S.E.M.T. PIELSTICK • COOPER ENTERPRISE

**DME INCORPORATED**

SANTA FE SPRINGS, CALIFORNIA

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For over three decades the craftsmen at DME have been manufacturing custom exhaust system components, bellows expansion joints and flexible metal hose assemblies.

This catalog presents some unique and common products used in engine exhaust and low pressure piping systems. DME has the engineering and production capabilities to design and fabricate unique products tailored to your individual requirements.

DME maintains an extensive inventory of components and raw materials in order to provide delivery schedules that meet our customers' critical requirements. Providing high quality products, in a timely manner, is a goal shared by each of our dedicated employees. DME also has earned a reputation for outstanding customer service.

The sales and engineering teams at DME are ready to assist you with your project!

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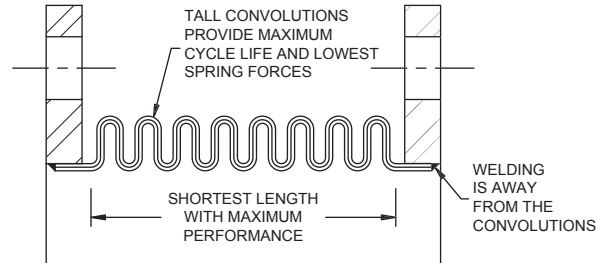


# COMPARISON

## MULTI-PLY BELLOWS vs SINGLE-PLY BELLOWS vs FLEX HOSE

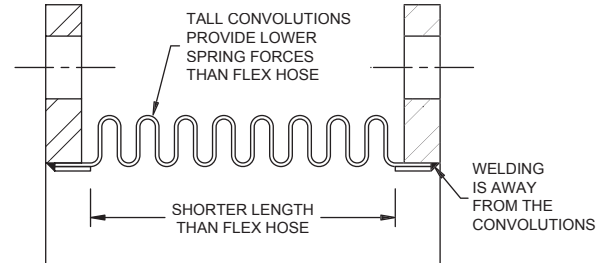
### MULTI-PLY CONSTRUCTION ( BEST )

DME's proven design multi-ply bellows, with their tall convolutions, will provide the ultimate in cycle life with the lowest spring rates available. These individually designed bellows, constructed with multiple layers of metal, have unique vibration dampening characteristics and greater movement capabilities. DME highly recommends multi-ply bellows for prime power and emergency generators, marine propulsion engines and all critical applications.



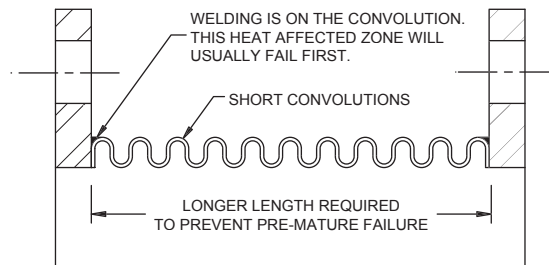
### SINGLE-PLY CONSTRUCTION ( BETTER )

Good cycle life and low spring rates will be achieved when utilizing a DME designed single-ply bellows. When space is limited, the bellows will provide a compact advantage over flex hose. Hand crafted bellows have a tangent or neck to facilitate welding, which by design, will remove the affected "heat zone" away from the first convolution.



### DIESEL FLEX HOSE ( GOOD )

When predictable cycle life is not an issue and space is adequate, exhaust flex hose can be used with satisfactory results. The skilled welders at DME minimize the impact of the affected "heat zone" on the convolution by insuring a no weld undercut.



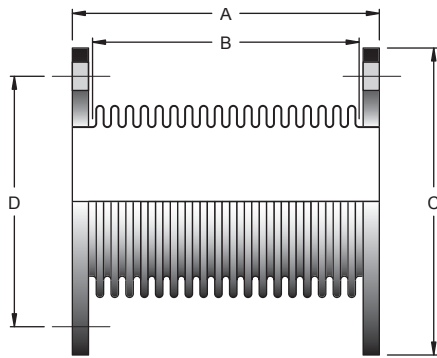
## RECOMMENDATIONS

SERVICE	MULTI-PLY	SINGLE PLY	FLEX HOSE
Prime Power At The Engine	X		
Thermal Expansion Of The Piping System	X	X	
Stand-By Generator	X	X	X
Rental Generator	X	X	X
When Space is Limited (All Applications)	X		
Turbine Exhaust	X		
Marine Exhaust At The Engine	X		
Marine Exhaust For Thermal Expansion Of The Piping System	X	X	
Fan Intake And Discharge	X	X	
Blower Inlet And Outlet	X	X	

# DME INCORPORATED

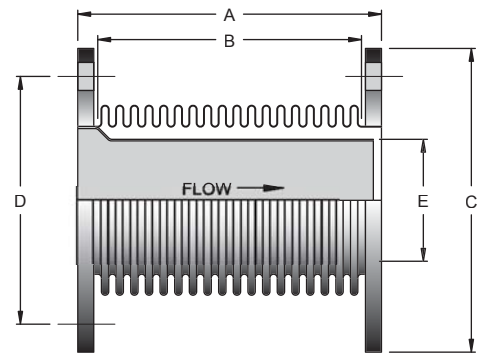
**TYPE 1 - FIXED X FIXED FLANGE (ANSI)**

T-321 STAINLESS STEEL BELLOWS & FLEX  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



**TYPE 1L - FIXED X FIXED FLANGE (ANSI)**

T-321 S/S BELLOWS / FLEX WITH INTERNAL FLOW LINER  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



**TYPE 1 - MULTI-PLY BELLOWS**

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	10.00	9.00	7.50	6.00	4	0.75	1M0300-10
3-1/2"	10.00	9.00	8.50	7.00	8	0.75	1M0350-10
4"	10.00	9.00	9.00	7.50	8	0.75	1M0400-10
5"	10.00	9.00	10.00	8.50	8	0.88	1M0500-10
6"	10.00	9.00	11.00	9.50	8	0.88	1M0600-10
8"	10.00	9.00	13.50	11.75	8	0.88	1M0800-10
10"	10.00	9.00	16.00	14.25	12	1.00	1M1000-10
12"	10.00	9.00	19.00	17.00	12	1.00	1M1200-10
14"	10.00	9.00	21.00	18.75	12	1.13	1M1400-10
16"	10.00	9.00	23.50	21.25	16	1.13	1M1600-10
18"	10.00	9.00	25.50	22.75	16	1.25	1M1800-10
20"	10.00	9.00	27.50	25.00	20	1.25	1M2000-10
22"	10.00	9.00	29.50	27.25	20	1.38	1M2200-10
24"	10.00	9.00	32.00	29.50	20	1.38	1M2400-10

**TYPE 1L - MULTI-PLY BELLOWS WITH LINER**

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	10.00	9.00	7.50	6.00	2.88	1M0300-10L
3-1/2"	4.00	10.00	9.00	8.50	7.00	3.38	1M0350-10L
4"	4.50	10.00	9.00	9.00	7.50	3.88	1M0400-10L
5"	5.56	10.00	9.00	10.00	8.50	4.75	1M0500-10L
6"	6.63	10.00	9.00	11.00	9.50	5.75	1M0600-10L
8"	8.63	10.00	9.00	13.50	11.75	7.75	1M0800-10L
10"	10.75	10.00	9.00	16.00	14.25	9.88	1M1000-10L
12"	12.75	10.00	9.00	19.00	17.00	11.88	1M1200-10L
14"	14.00	10.00	9.00	21.00	18.75	13.00	1M1400-10L
16"	16.00	10.00	9.00	23.50	21.25	15.00	1M1600-10L
18"	18.00	10.00	9.00	25.50	22.75	17.00	1M1800-10L
20"	20.00	10.00	9.00	27.50	25.00	19.00	1M2000-10L
22"	22.00	10.00	9.00	29.50	27.25	21.00	1M2200-10L
24"	24.00	10.00	9.00	32.00	29.50	23.00	1M2400-10L

**TYPE 1 - SINGLE-PLY BELLOWS**

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	10.00	9.00	7.50	6.00	4	0.75	1S0300-10
3-1/2"	10.00	9.00	8.50	7.00	8	0.75	1S0350-10
4"	10.00	9.00	9.00	7.50	8	0.75	1S0400-10
5"	10.00	9.00	10.00	8.50	8	0.88	1S0500-10
6"	10.00	9.00	11.00	9.50	8	0.88	1S0600-10
8"	10.00	9.00	13.50	11.75	8	0.88	1S0800-10
10"	10.00	9.00	16.00	14.25	12	1.00	1S1000-10
12"	10.00	9.00	19.00	17.00	12	1.00	1S1200-10
14"	10.00	9.00	21.00	18.75	12	1.13	1S1400-10
16"	10.00	9.00	23.50	21.25	16	1.13	1S1600-10
18"	10.00	9.00	25.50	22.75	16	1.25	1S1800-10
20"	10.00	9.00	27.50	25.00	20	1.25	1S2000-10
22"	10.00	9.00	29.50	27.25	20	1.38	1S2200-10
24"	10.00	9.00	32.00	29.50	20	1.38	1S2400-10

**TYPE 1L - SINGLE-PLY BELLOWS WITH LINER**

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	10.00	9.00	7.50	6.00	2.88	1S0300-10L
3-1/2"	4.00	10.00	9.00	8.50	7.00	3.38	1S0350-10L
4"	4.50	10.00	9.00	9.00	7.50	3.88	1S0400-10L
5"	5.56	10.00	9.00	10.00	8.50	4.75	1S0500-10L
6"	6.63	10.00	9.00	11.00	9.50	5.75	1S0600-10L
8"	8.63	10.00	9.00	13.50	11.75	7.75	1S0800-10L
10"	10.75	10.00	9.00	16.00	14.25	9.88	1S1000-10L
12"	12.75	10.00	9.00	19.00	17.00	11.88	1S1200-10L
14"	14.00	10.00	9.00	21.00	18.75	13.00	1S1400-10L
16"	16.00	10.00	9.00	23.50	21.25	15.00	1S1600-10L
18"	18.00	10.00	9.00	25.50	22.75	17.00	1S1800-10L
20"	20.00	10.00	9.00	27.50	25.00	19.00	1S2000-10L
22"	22.00	10.00	9.00	29.50	27.25	21.00	1S2200-10L
24"	24.00	10.00	9.00	32.00	29.50	23.00	1S2400-10L

**TYPE 1 - FLEX HOSE**

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	18.00	17.00	7.50	6.00	4	0.75	1F0300-18
3-1/2"	18.00	17.00	8.50	7.00	8	0.75	1F0350-18
4"	18.00	17.00	9.00	7.50	8	0.75	1F0400-18
5"	18.00	17.00	10.00	8.50	8	0.88	1F0500-18
6"	18.00	17.00	11.00	9.50	8	0.88	1F0600-18
8"	18.00	17.00	13.50	11.75	8	0.88	1F0800-18
10"	18.00	17.00	16.00	14.25	12	1.00	1F1000-18
12"	18.00	17.00	19.00	17.00	12	1.00	1F1200-18
14"	18.00	17.00	21.00	18.75	12	1.13	1F1400-18
16"	18.00	17.00	23.50	21.25	16	1.13	1F1600-18
18"	18.00	17.00	25.50	22.75	16	1.25	1F1800-18

**OPTIONS:**

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- Cummins and Detroit Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

**NOTES:**

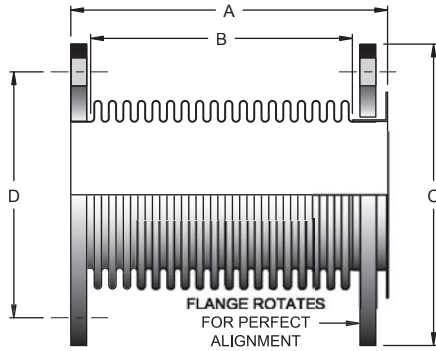
- T-321 Stainless Steel Vanstone (Standard).
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

See pages 27-29 for bellows and flex hose specifications.

# VIBRATION ISOLATORS

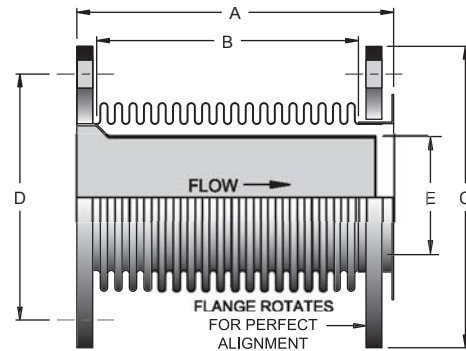
## TYPE 13 - FIXED X FLOATING FLANGES (ANSI)

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



## TYPE 13L - FIXED X FLOATING FLANGES (ANSI)

T-321 S/S BELLOWS / FLEX WITH INTERNAL FLOW LINER  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



### TYPE 13 - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	12.00	9.00	7.50	6.00	4	0.75	13M0300-12
3-1/2"	12.00	9.00	8.50	7.00	8	0.75	13M0350-12
4"	12.00	9.00	9.00	7.50	8	0.75	13M0400-12
5"	12.00	9.00	10.00	8.50	8	0.88	13M0500-12
6"	12.00	9.00	11.00	9.50	8	0.88	13M0600-12
8"	12.00	9.00	13.50	11.75	8	0.88	13M0800-12
10"	12.00	9.00	16.00	14.25	12	1.00	13M1000-12
12"	12.00	9.00	19.00	17.00	12	1.00	13M1200-12
14"	12.00	9.00	21.00	18.75	12	1.13	13M1400-12
16"	12.00	9.00	23.50	21.25	16	1.13	13M1600-12
18"	12.00	9.00	25.50	22.75	16	1.25	13M1800-12
20"	12.00	9.00	27.50	25.00	20	1.25	13M2000-12
22"	12.00	9.00	29.50	27.25	20	1.38	13M2200-12
24"	12.00	9.00	32.00	29.50	20	1.38	13M2400-12

### TYPE 13L - MULTI-PLY BELLOWS WITH LINER

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	12.00	9.00	7.50	6.00	2.88	13M0300-12L
3-1/2"	4.00	12.00	9.00	8.50	7.00	3.38	13M0350-12L
4"	4.50	12.00	9.00	9.00	7.50	3.88	13M0400-12L
5"	5.56	12.00	9.00	10.00	8.50	4.75	13M0500-12L
6"	6.63	12.00	9.00	11.00	9.50	5.75	13M0600-12L
8"	8.63	12.00	9.00	13.50	11.75	7.75	13M0800-12L
10"	10.75	12.00	9.00	16.00	14.25	9.88	13M1000-12L
12"	12.75	12.00	9.00	19.00	17.00	11.88	13M1200-12L
14"	14.00	12.00	9.00	21.00	18.75	13.00	13M1400-12L
16"	16.00	12.00	9.00	23.50	21.25	15.00	13M1600-12L
18"	18.00	12.00	9.00	25.50	22.75	17.00	13M1800-12L
20"	20.00	12.00	9.00	27.50	25.00	19.00	13M2000-12L
22"	22.00	12.00	9.00	29.50	27.25	21.00	13M2200-12L
24"	24.00	12.00	9.00	32.00	29.50	23.00	13M2400-12L

### TYPE 13 - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	12.00	9.00	7.50	6.00	4	0.75	13S0300-12
3-1/2"	12.00	9.00	8.50	7.00	8	0.75	13S0350-12
4"	12.00	9.00	9.00	7.50	8	0.75	13S0400-12
5"	12.00	9.00	10.00	8.50	8	0.88	13S0500-12
6"	12.00	9.00	11.00	9.50	8	0.88	13S0600-12
8"	12.00	9.00	13.50	11.75	8	0.88	13S0800-12
10"	12.00	9.00	16.00	14.25	12	1.00	13S1000-12
12"	12.00	9.00	19.00	17.00	12	1.00	13S1200-12
14"	12.00	9.00	21.00	18.75	12	1.13	13S1400-12
16"	12.00	9.00	23.50	21.25	16	1.13	13S1600-12
18"	12.00	9.00	25.50	22.75	16	1.25	13S1800-12
20"	12.00	9.00	27.50	25.00	20	1.25	13S2000-12
22"	12.00	9.00	29.50	27.25	20	1.38	13S2200-12
24"	12.00	9.00	32.00	29.50	20	1.38	13S2400-12

### TYPE 13L - SINGLE-PLY BELLOWS WITH LINER

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	12.00	9.00	7.50	6.00	2.88	13S0300-12L
3-1/2"	4.00	12.00	9.00	8.50	7.00	3.38	13S0350-12L
4"	4.50	12.00	9.00	9.00	7.50	3.88	13S0400-12L
5"	5.56	12.00	9.00	10.00	8.50	4.75	13S0500-12L
6"	6.63	12.00	9.00	11.00	9.50	5.75	13S0600-12L
8"	8.63	12.00	9.00	13.50	11.75	7.75	13S0800-12L
10"	10.75	12.00	9.00	16.00	14.25	9.88	13S1000-12L
12"	12.75	12.00	9.00	19.00	17.00	11.88	13S1200-12L
14"	14.00	12.00	9.00	21.00	18.75	13.00	13S1400-12L
16"	16.00	12.00	9.00	23.50	21.25	15.00	13S1600-12L
18"	18.00	12.00	9.00	25.50	22.75	17.00	13S1800-12L
20"	20.00	12.00	9.00	27.50	25.00	19.00	13S2000-12L
22"	22.00	12.00	9.00	29.50	27.25	21.00	13S2200-12L
24"	24.00	12.00	9.00	32.00	29.50	23.00	13S2400-12L

### TYPE 13 - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	20.00	17.00	7.50	6.00	4	0.75	13F0300-20
3-1/2"	20.00	17.00	8.50	7.00	8	0.75	13F0350-20
4"	20.00	17.00	9.00	7.50	8	0.75	13F0400-20
5"	20.00	17.00	10.00	8.50	8	0.88	13F0500-20
6"	20.00	17.00	11.00	9.50	8	0.88	13F0600-20
8"	20.00	17.00	13.50	11.75	8	0.88	13F0800-20
10"	20.00	17.00	16.00	14.25	12	1.00	13F1000-20
12"	20.00	17.00	19.00	17.00	12	1.00	13F1200-20
14"	20.00	17.00	21.00	18.75	12	1.13	13F1400-20
16"	20.00	17.00	23.50	21.25	16	1.13	13F1600-20
18"	20.00	17.00	25.50	22.75	16	1.25	13F1800-20

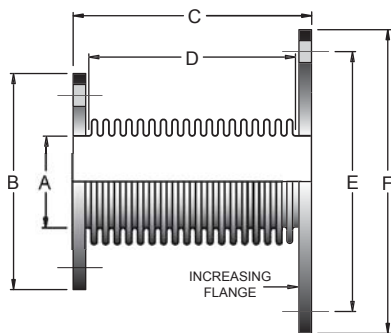
### OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- Cummins and Detroit Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

### NOTES:

- T-321 Stainless Steel Vanstone (Standard).
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

See pages 27-29 for bellows and flex hose specifications.



**TYPE 25 - FLANGE X INCREASER FLANGE (ANSI)**

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125/150# ANSI CARBON STEEL INLET FLANGE  
 125/150# ANSI CARBON STEEL OUTLET FLANGE (INCREASING)

**OPTIONS:**

- Longer / Shorter Lengths
- Inconel 625 Bellows
- Special Drilled / Metric Flanges
- Flow Liner
- Cummins and Detroit Flanges
- Increasing / Reducing Flanges
- T-304 Stainless Steel Flanges

See pages 27-29 for bellows and flex hose specifications.

**TYPE 25 - MULTI-PLY BELLOWS**

INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	OUTLET	E	F	PART NO.	OUTLET	E	F	PART NO.
3"	7.50	10.00	9.00	4"	7.50	9.00	25M0300-4-10	5"	9.00	10.00	25M0300-5-10
3.50"	8.50	10.00	9.00	4"	7.50	9.00	25M0350-4-10	5"	8.50	10.00	25M0350-5-10
4"	9.00	10.00	9.00	5"	8.50	10.00	25M0400-5-10	6"	9.50	11.00	25M0400-6-10
5"	10.00	10.00	9.00	6"	9.50	11.00	25M0500-6-10	8"	11.75	13.50	25M0500-8-10
6"	11.00	10.00	9.00	8"	11.75	13.50	25M0600-8-10	10"	14.25	16.00	25M0600-10-10
8"	13.50	10.00	9.00	10"	14.25	16.00	25M0800-10-10	12"	17.00	19.00	25M0800-12-10
10"	16.00	10.00	9.00	12"	17.00	19.00	25M1000-12-10	14"	18.75	21.00	25M1000-14-10
12"	19.00	10.00	9.00	14"	18.75	21.00	25M1200-14-10	16"	21.25	23.50	25M1200-16-10
14"	21.00	10.00	9.00	16"	21.25	23.50	25M1400-16-10	18"	22.75	25.00	25M1400-18-10
16"	23.50	10.00	9.00	18"	22.75	25.00	25M1600-18-10	20"	25.00	27.50	25M1600-20-10
18"	25.00	10.00	9.00	20"	25.00	27.50	25M1800-20-10	22"	27.25	29.50	25M1800-22-10
20"	27.50	10.00	9.00	22"	27.25	29.50	25M2000-22-10	24"	29.50	32.00	25M2000-24-10
22"	29.50	10.00	9.00	24"	29.50	32.00	25M2200-24-10	26"	31.75	34.25	25M2200-26-10
24"	32.00	10.00	9.00	26"	31.75	34.25	25M2400-26-10	30"	36.00	38.75	25M2400-30-10

**TYPE 25 - SINGLE-PLY BELLOWS**

INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	OUTLET	E	F	PART NO.	OUTLET	F	G	PART NO.
3"	7.50	10.00	9.00	4"	7.50	9.00	25S0300-4-10	5"	9.00	10.00	25S0300-5-10
3.50"	8.50	10.00	9.00	4"	7.50	9.00	25S0350-4-10	5"	8.50	10.00	25S0350-5-10
4"	9.00	10.00	9.00	5"	8.50	10.00	25S0400-5-10	6"	9.50	11.00	25S0400-6-10
5"	10.00	10.00	9.00	6"	9.50	11.00	25S0500-6-10	8"	11.75	13.50	25S0500-8-10
6"	11.00	10.00	9.00	8"	11.75	13.50	25S0600-8-10	10"	14.25	16.00	25S0600-10-10
8"	13.50	10.00	9.00	10"	14.25	16.00	25S0800-10-10	12"	17.00	19.00	25S0800-12-10
10"	16.00	10.00	9.00	12"	17.00	19.00	25S1000-12-10	14"	18.75	21.00	25S1000-14-10
12"	19.00	10.00	9.00	14"	18.75	21.00	25S1200-14-10	16"	21.25	23.50	25S1200-16-10
14"	21.00	10.00	9.00	16"	21.25	23.50	25S1400-16-10	18"	22.75	25.00	25S1400-18-10
16"	23.50	10.00	9.00	18"	22.75	25.00	25S1600-18-10	20"	25.00	27.50	25S1600-20-10
18"	25.00	10.00	9.00	20"	25.00	27.50	25S1800-20-10	22"	27.25	29.50	25S1800-22-10
20"	27.50	10.00	9.00	22"	27.25	29.50	25S2000-22-10	24"	29.50	32.00	25S2000-24-10
22"	29.50	10.00	9.00	24"	29.50	32.00	25S2200-24-10	26"	31.75	34.25	25S2200-26-10
24"	32.00	10.00	9.00	26"	31.75	34.25	25S2400-26-10	30"	36.00	38.75	25S2400-30-10

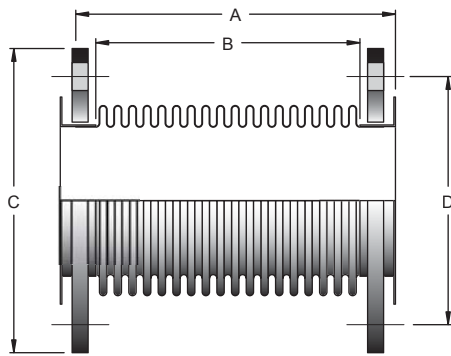
**TYPE 25 - FLEX HOSE**

INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	OUTLET	E	F	PART NO.	OUTLET	E	F	PART NO.
3"	7.50	18.00	17.00	4"	7.50	9.00	25F0300-4-18	5"	9.00	10.00	25F0300-5-18
3.50"	8.50	18.00	17.00	4"	7.50	9.00	25F0350-4-18	5"	8.50	10.00	25F0350-5-18
4"	9.00	18.00	17.00	5"	8.50	10.00	25F0400-5-18	6"	9.50	11.00	25F0400-6-18
5"	10.00	18.00	17.00	6"	9.50	11.00	25F0500-6-18	8"	11.75	13.50	25F0500-8-18
6"	11.00	18.00	17.00	8"	11.75	13.50	25F0600-8-18	10"	14.25	16.00	25F0600-10-18
8"	13.50	18.00	17.00	10"	14.25	16.00	25F0800-10-18	12"	17.00	19.00	25F0800-12-18
10"	16.00	18.00	17.00	12"	17.00	19.00	25F1000-12-18	14"	18.75	21.00	25F1000-14-18
12"	19.00	18.00	17.00	14"	18.75	21.00	25F1200-14-18	16"	21.25	23.50	25F1200-16-18
14"	21.00	18.00	17.00	16"	21.25	23.50	25F1400-16-18	18"	22.75	25.00	25F1400-18-18
16"	23.50	18.00	17.00	18"	22.75	25.00	25F1600-18-18	20"	25.00	27.50	25F1600-20-18
18"	25.00	18.00	17.00	20"	25.00	27.50	25F1800-20-18	22"	27.25	29.50	25F1800-22-18

# VIBRATION ISOLATORS

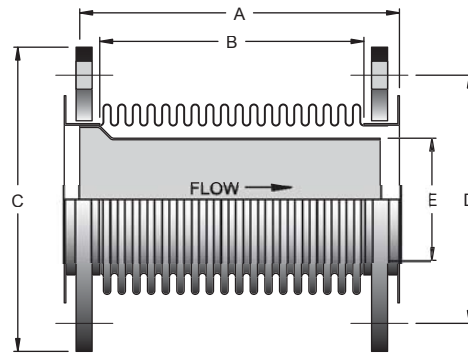
## TYPE 31A - FLOATING X FLOATING (ANSI)

T-321 STAINLESS STEEL BELLOWS / FLEX  
125-150# FLOATING ANSI FLANGE, A-36 STEEL EACH END



## TYPE 31AL - FLOATING X FLOATING (ANSI)

T-321 STAINLESS STEEL BELLOWS / FLEX WITH FLOW LINER  
125-150# FLOATING ANSI FLANGE, A-36 STEEL EACH END



## TYPE 31A - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	13.00	9.00	7.50	6.00	4	0.75	31M0300-13A
3-1/2"	13.00	9.00	8.50	7.00	8	0.75	31M0350-13A
4"	13.00	9.00	9.00	7.50	8	0.75	31M0400-13A
5"	13.00	9.00	10.00	8.50	8	0.88	31M0500-13A
6"	13.00	9.00	11.00	9.50	8	0.88	31M0600-13A
8"	13.00	9.00	13.50	11.75	8	0.88	31M0800-13A
10"	13.00	9.00	16.00	14.25	12	1.00	31M1000-13A
12"	13.00	9.00	19.00	17.00	12	1.00	31M1200-13A
14"	13.00	9.00	21.00	18.75	12	1.13	31M1400-13A
16"	13.00	9.00	23.50	21.25	16	1.13	31M1600-13A
18"	13.00	9.00	25.50	22.75	16	1.25	31M1800-13A
20"	13.00	9.00	27.50	25.00	20	1.25	31M2000-13A
22"	13.00	9.00	29.50	27.25	20	1.38	31M2200-13A
24"	13.00	9.00	32.00	29.50	20	1.38	31M2400-13A

## TYPE 31AL - MULTI-PLY BELLOWS WITH LINER

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	13.00	9.00	7.50	6.00	2.88	31M0300-13AL
3-1/2"	4.00	13.00	9.00	8.50	7.00	3.38	31M0350-13AL
4"	4.50	13.00	9.00	9.00	7.50	3.88	31M0400-13AL
5"	5.56	13.00	9.00	10.00	8.50	4.75	31M0500-13AL
6"	6.63	13.00	9.00	11.00	9.50	5.75	31M0600-13AL
8"	8.63	13.00	9.00	13.50	11.75	7.75	31M0800-13AL
10"	10.75	13.00	9.00	16.00	14.25	9.88	31M1000-13AL
12"	12.75	13.00	9.00	19.00	17.00	11.88	31M1200-13AL
14"	14.00	13.00	9.00	21.00	18.75	13.00	31M1400-13AL
16"	16.00	13.00	9.00	23.50	21.25	15.00	31M1600-13AL
18"	18.00	13.00	9.00	25.50	22.75	17.00	31M1800-13AL
20"	20.00	13.00	9.00	27.50	25.00	19.00	31M2000-13AL
22"	22.00	13.00	9.00	29.50	27.25	21.00	31M2200-13AL
24"	24.00	13.00	9.00	32.00	29.50	23.00	31M2400-13AL

## TYPE 31A - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	13.00	9.00	7.50	6.00	4	0.75	31S0300-13A
3-1/2"	13.00	9.00	8.50	7.00	8	0.75	31S0350-13A
4"	13.00	9.00	9.00	7.50	8	0.75	31S0400-13A
5"	13.00	9.00	10.00	8.50	8	0.88	31S0500-13A
6"	13.00	9.00	11.00	9.50	8	0.88	31S0600-13A
8"	13.00	9.00	13.50	11.75	8	0.88	31S0800-13A
10"	13.00	9.00	16.00	14.25	12	1.00	31S1000-13A
12"	13.00	9.00	19.00	17.00	12	1.00	31S1200-13A
14"	13.00	9.00	21.00	18.75	12	1.13	31S1400-13A
16"	13.00	9.00	23.50	21.25	16	1.13	31S1600-13A
18"	13.00	9.00	25.50	22.75	16	1.25	31S1800-13A
20"	13.00	9.00	27.50	25.00	20	1.25	31S2000-13A
22"	13.00	9.00	29.50	27.25	20	1.38	31S2200-13A
24"	13.00	9.00	32.00	29.50	20	1.38	31S2400-13A

## TYPE 31AL - SINGLE-PLY BELLOWS WITH LINER

SIZE	I.D.	A	B	C	D	E	PART NO.
3"	3.50	13.00	9.00	7.50	6.00	2.88	31S0300-13AL
3-1/2"	4.00	13.00	9.00	8.50	7.00	3.38	31S0350-13AL
4"	4.50	13.00	9.00	9.00	7.50	3.88	31S0400-13AL
5"	5.56	13.00	9.00	10.00	8.50	4.75	31S0500-13AL
6"	6.63	13.00	9.00	11.00	9.50	5.75	31S0600-13AL
8"	8.63	13.00	9.00	13.50	11.75	7.75	31S0800-13AL
10"	10.75	13.00	9.00	16.00	14.25	9.88	31S1000-13AL
12"	12.75	13.00	9.00	19.00	17.00	11.88	31S1200-13AL
14"	14.00	13.00	9.00	21.00	18.75	13.00	31S1400-13AL
16"	16.00	13.00	9.00	23.50	21.25	15.00	31S1600-13AL
18"	18.00	13.00	9.00	25.50	22.75	17.00	31S1800-13AL
20"	20.00	13.00	9.00	27.50	25.00	19.00	31S2000-13AL
22"	22.00	13.00	9.00	29.50	27.25	21.00	31S2200-13AL
24"	24.00	13.00	9.00	32.00	29.50	23.00	31S2400-13AL

## TYPE 31A - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
3"	22.00	17.00	7.50	6.00	4	0.75	31F0300-22A
3-1/2"	22.00	17.00	8.50	7.00	8	0.75	31F0350-22A
4"	22.00	17.00	9.00	7.50	8	0.75	31F0400-22A
5"	22.00	17.00	10.00	8.50	8	0.88	31F0500-22A
6"	22.00	17.00	11.00	9.50	8	0.88	31F0600-22A
8"	22.00	17.00	13.50	11.75	8	0.88	31F0800-22A
10"	22.00	17.00	16.00	14.25	12	1.00	31F1000-22A
12"	22.00	17.00	19.00	17.00	12	1.00	31F1200-22A
14"	22.00	17.00	21.00	18.75	12	1.13	31F1400-22A
16"	22.00	17.00	23.50	21.25	16	1.13	31F1600-22A
18"	22.00	17.00	25.50	22.75	16	1.25	31F1800-22A

## OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- Cummins and Detroit Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

## NOTES:

- T-321 Stainless Steel Vanstone (Standard).
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:

6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.  
8" and Over (Gas / Steam) - 25ft/sec.

See pages 27-29 for bellows and flex hose specifications.

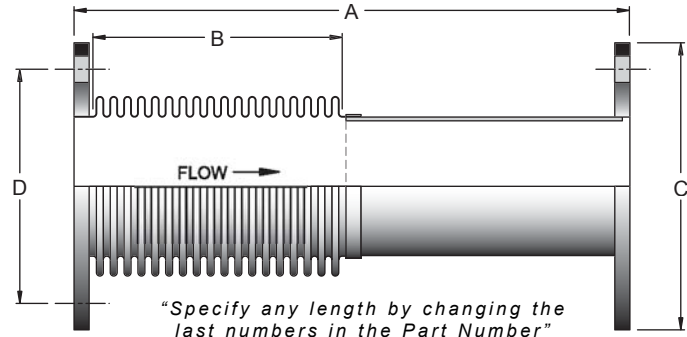


## TYPE 28 - FLANGE X SPACER FLANGE (ANSI)

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 TUBE SPACER, A-36 STEEL

### OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Inconel 625 Bellows
- T-321 or T-304 Stainless Steel Spacer Tube
- Flow Liner



## TYPE 28 - MULTI-PLY BELLOWS

SIZE	24" LONG			36" LONG			48" LONG			ANSI FLANGE DIM.			
	A	B	PART NO.	A	B	PART NO.	A	B	PART NO.	C	D	HOLES	DIA.
3"	24.00	9.00	28M0300-24	36.00	9.00	28M0300-36	48.00	9.00	28M0300-48	7.50	6.00	4	0.75
3-1/2"	24.00	9.00	28M0350-24	36.00	9.00	28M0350-36	48.00	9.00	28M0350-48	8.50	7.00	8	0.75
4"	24.00	9.00	28M0400-24	36.00	9.00	28M0400-36	48.00	9.00	28M0400-48	9.00	7.50	8	0.75
5"	24.00	9.00	28M0500-24	36.00	9.00	28M0500-36	48.00	9.00	28M0500-48	10.00	8.50	8	0.88
6"	24.00	9.00	28M0600-24	36.00	9.00	28M0600-36	48.00	9.00	28M0600-48	11.00	9.50	8	0.88
8"	24.00	9.00	28M0800-24	36.00	9.00	28M0800-36	48.00	9.00	28M0800-48	13.50	11.75	8	0.88
10"	24.00	9.00	28M1000-24	36.00	9.00	28M1000-36	48.00	9.00	28M1000-48	16.00	14.25	12	1.00
12"	24.00	9.00	28M1200-24	36.00	9.00	28M1200-36	48.00	9.00	28M1200-48	19.00	17.00	12	1.00
14"	24.00	9.00	28M1400-24	36.00	9.00	28M1400-36	48.00	9.00	28M1400-48	21.00	18.75	12	1.13
16"	24.00	9.00	28M1600-24	36.00	9.00	28M1600-36	48.00	9.00	28M1600-48	23.20	21.25	16	1.13
18"	24.00	9.00	28M1800-24	36.00	9.00	28M1800-36	48.00	9.00	28M1800-48	25.00	22.75	16	1.25
20"	24.00	9.00	28M2000-24	36.00	9.00	28M2000-36	48.00	9.00	28M2000-48	27.50	25.00	20	1.25
22"	24.00	9.00	28M2200-24	36.00	9.00	28M2200-36	48.00	9.00	28M2200-48	29.50	27.25	20	1.38
24"	24.00	9.00	28M2400-24	36.00	9.00	28M2400-36	48.00	9.00	28M2400-48	32.00	29.50	20	1.38

## TYPE 28 - SINGLE-PLY BELLOWS

SIZE	24" LONG			36" LONG			48" LONG			ANSI FLANGE DIM.			
	A	B	PART NO.	A	B	PART NO.	A	B	PART NO.	C	D	HOLES	DIA.
3"	24.00	9.00	28S0300-24	36.00	9.00	28S0300-36	48.00	9.00	28S0300-48	7.50	6.00	4	0.75
3-1/2"	24.00	9.00	28S0350-24	36.00	9.00	28S0350-36	48.00	9.00	28S0350-48	8.50	7.00	8	0.75
4"	24.00	9.00	28S0400-24	36.00	9.00	28S0400-36	48.00	9.00	28S0400-48	9.00	7.50	8	0.75
5"	24.00	9.00	28S0500-24	36.00	9.00	28S0500-36	48.00	9.00	28S0500-48	10.00	8.50	8	0.88
6"	24.00	9.00	28S0600-24	36.00	9.00	28S0600-36	48.00	9.00	28S0600-48	11.00	9.50	8	0.88
8"	24.00	9.00	28S0800-24	36.00	9.00	28S0800-36	48.00	9.00	28S0800-48	13.50	11.75	8	0.88
10"	24.00	9.00	28S1000-24	36.00	9.00	28S1000-36	48.00	9.00	28S1000-48	16.00	14.25	12	1.00
12"	24.00	9.00	28S1200-24	36.00	9.00	28S1200-36	48.00	9.00	28S1200-48	19.00	17.00	12	1.00
14"	24.00	9.00	28S1400-24	36.00	9.00	28S1400-36	48.00	9.00	28S1400-48	21.00	18.75	12	1.13
16"	24.00	9.00	28S1600-24	36.00	9.00	28S1600-36	48.00	9.00	28S1600-48	23.20	21.25	16	1.13
18"	24.00	9.00	28S1800-24	36.00	9.00	28S1800-36	48.00	9.00	28S1800-48	25.00	22.75	16	1.25
20"	24.00	9.00	28S2000-24	36.00	9.00	28S2000-36	48.00	9.00	28S2000-48	27.50	25.00	20	1.25
22"	24.00	9.00	28S2200-24	36.00	9.00	28S2200-36	48.00	9.00	28S2200-48	29.50	27.25	20	1.38
24"	24.00	9.00	28S2400-24	36.00	9.00	28S2400-36	48.00	9.00	28S2400-48	32.00	29.50	20	1.38

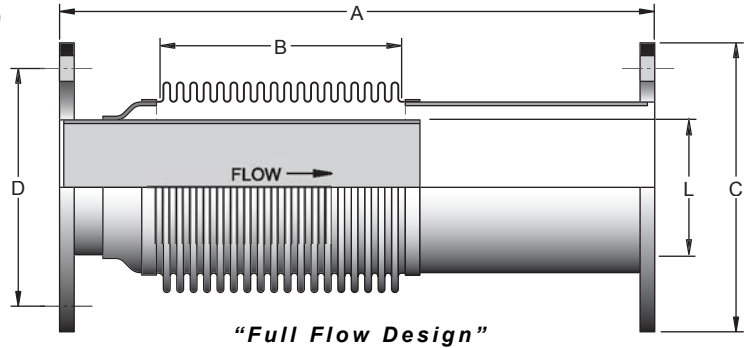
## TYPE 28 - FLEX HOSE

SIZE	24" LONG			36" LONG			48" LONG			ANSI FLANGE DIM.			
	A	B	PART NO.	A	B	PART NO.	A	B	PART NO.	C	D	HOLES	DIA.
3"	24.00	17.00	28F0300-24	36.00	17.00	28F0300-36	48.00	17.00	28F0300-48	7.50	6.00	4	0.75
3-1/2"	24.00	17.00	28F0350-24	36.00	17.00	28F0350-36	48.00	17.00	28F0350-48	8.50	7.00	8	0.75
4"	24.00	17.00	28F0400-24	36.00	17.00	28F0400-36	48.00	17.00	28F0400-48	9.00	7.50	8	0.75
5"	24.00	17.00	28F0500-24	36.00	17.00	28F0500-36	48.00	17.00	28F0500-48	10.00	8.50	8	0.88
6"	24.00	17.00	28F0600-24	36.00	17.00	28F0600-36	48.00	17.00	28F0600-48	11.00	9.50	8	0.88
8"	24.00	17.00	28F0800-24	36.00	17.00	28F0800-36	48.00	17.00	28F0800-48	13.50	11.75	8	0.88
10"	24.00	17.00	28F1000-24	36.00	17.00	28F1000-36	48.00	17.00	28F1000-48	16.00	14.25	12	1.00
12"	24.00	17.00	28F1200-24	36.00	17.00	28F1200-36	48.00	17.00	28F1200-48	19.00	17.00	12	1.00
14"	24.00	17.00	28F1400-24	36.00	17.00	28F1400-36	48.00	17.00	28F1400-48	21.00	18.75	12	1.13
16"	24.00	17.00	28F1600-24	36.00	17.00	28F1600-36	48.00	17.00	28F1600-48	23.20	21.25	16	1.13
18"	24.00	17.00	28F1800-24	36.00	17.00	28F1800-36	48.00	17.00	28F1800-48	25.00	22.75	16	1.25

# 000000 FULL FLOW ISOLATORS 000000

## TYPE 28LP - FLANGE X SPACER FLANGE (ANSI)

T-321 STAINLESS STEEL BELLOWS  
 FULL FLOW LINER WITH MAXIMUM LATERAL  
 OFFSET CAPABILITY.  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 TUBE SPACER, A-36 STEEL



## TYPE 28LP - MULTI-PLY BELLOWS WITH LINER

SIZE	24" LONG				36" LONG			48" LONG			L	ANSI FLANGE DIM.			
	I.D.	A	B	PART NO.	A	B	PART NO.	A	B	PART NO.		C	D	HOLES	DIA.
3"	4.50	24.00	9.00	28M0300-24LP	36.00	9.00	28M0300-36LP	48.00	9.00	28M0300-48LP	3.00	7.50	6.00	4	0.75
3.50"	5.00	24.00	9.00	28M0350-24LP	36.00	9.00	28M0350-36LP	48.00	9.00	28M0350-48LP	3.50	8.50	7.00	8	0.75
4"	6.00	24.00	9.00	28M0400-24LP	36.00	9.00	28M0400-36LP	48.00	9.00	28M0400-48LP	4.00	9.00	7.50	8	0.75
5"	6.63	24.00	9.00	28M0500-24LP	36.00	9.00	28M0500-36LP	48.00	9.00	28M0500-48LP	5.00	10.00	8.50	8	0.88
6"	8.00	24.00	9.00	28M0600-24LP	36.00	9.00	28M0600-36LP	48.00	9.00	28M0600-48LP	6.00	11.00	9.50	8	0.88
8"	10.00	24.00	9.00	28M0800-24LP	36.00	9.00	28M0800-36LP	48.00	9.00	28M0800-48LP	8.00	13.50	11.75	8	0.88
10"	12.00	24.00	9.00	28M1000-24LP	36.00	9.00	28M1000-36LP	48.00	9.00	28M1000-48LP	10.00	16.00	14.25	12	1.00
12"	14.00	24.00	9.00	28M1200-24LP	36.00	9.00	28M1200-36LP	48.00	9.00	28M1200-48LP	12.00	19.00	17.00	12	1.00
14"	16.00	24.00	9.00	28M1400-24LP	36.00	9.00	28M1400-36LP	48.00	9.00	28M1400-48LP	14.00	21.00	18.75	12	1.13
16"	18.00	24.00	9.00	28M1600-24LP	36.00	9.00	28M1600-36LP	48.00	9.00	28M1600-48LP	16.00	23.20	21.25	16	1.13
18"	20.00	24.00	9.00	28M1800-24LP	36.00	9.00	28M1800-36LP	48.00	9.00	28M1800-48LP	18.00	25.00	22.75	16	1.25
20"	22.00	24.00	9.00	28M2000-24LP	36.00	9.00	28M2000-36LP	48.00	9.00	28M2000-48LP	20.00	27.50	25.00	20	1.25
22"	24.00	24.00	9.00	28M2200-24LP	36.00	9.00	28M2200-36LP	48.00	9.00	28M2200-48LP	22.00	29.50	27.25	20	1.38
24"	26.00	24.00	9.00	28M2400-24LP	36.00	9.00	28M2400-36LP	48.00	9.00	28M2400-48LP	24.00	32.00	29.50	20	1.38

## TYPE 28LP - SINGLE-PLY BELLOWS WITH LINER

SIZE	24" LONG				36" LONG			48" LONG			L	ANSI FLANGE DIM.			
	I.D.	A	B	PART NO.	A	B	PART NO.	A	B	PART NO.		C	D	HOLES	DIA.
3"	4.50	24.00	9.00	28S0300-24LP	36.00	9.00	28S0300-36LP	48.00	9.00	28S0300-48LP	3.00	7.50	6.00	4	0.75
3.50"	5.00	24.00	9.00	28S0350-24LP	36.00	9.00	28S0350-36LP	48.00	9.00	28S0350-48LP	3.50	8.50	7.00	8	0.75
4"	6.00	24.00	9.00	28S0400-24LP	36.00	9.00	28S0400-36LP	48.00	9.00	28S0400-48LP	4.00	9.00	7.50	8	0.75
5"	6.63	24.00	9.00	28S0500-24LP	36.00	9.00	28S0500-36LP	48.00	9.00	28S0500-48LP	5.00	10.00	8.50	8	0.88
6"	8.00	24.00	9.00	28S0600-24LP	36.00	9.00	28S0600-36LP	48.00	9.00	28S0600-48LP	6.00	11.00	9.50	8	0.88
8"	10.00	24.00	9.00	28S0800-24LP	36.00	9.00	28S0800-36LP	48.00	9.00	28S0800-48LP	8.00	13.50	11.75	8	0.88
10"	12.00	24.00	9.00	28S1000-24LP	36.00	9.00	28S1000-36LP	48.00	9.00	28S1000-48LP	10.00	16.00	14.25	12	1.00
12"	14.00	24.00	9.00	28S1200-24LP	36.00	9.00	28S1200-36LP	48.00	9.00	28S1200-48LP	12.00	19.00	17.00	12	1.00
14"	16.00	24.00	9.00	28S1400-24LP	36.00	9.00	28S1400-36LP	48.00	9.00	28S1400-48LP	14.00	21.00	18.75	12	1.13
16"	18.00	24.00	9.00	28S1600-24LP	36.00	9.00	28S1600-36LP	48.00	9.00	28S1600-48LP	16.00	23.20	21.25	16	1.13
18"	20.00	24.00	9.00	28S1800-24LP	36.00	9.00	28S1800-36LP	48.00	9.00	28S1800-48LP	18.00	25.00	22.75	16	1.25
20"	22.00	24.00	9.00	28S2000-24LP	36.00	9.00	28S2000-36LP	48.00	9.00	28S2000-48LP	20.00	27.50	25.00	20	1.25
22"	24.00	24.00	9.00	28S2200-24LP	36.00	9.00	28S2200-36LP	48.00	9.00	28S2200-48LP	22.00	29.50	27.25	20	1.38
24"	26.00	24.00	9.00	28S2400-24LP	36.00	9.00	28S2400-36LP	48.00	9.00	28S2400-48LP	24.00	32.00	29.50	20	1.38

See pages 27-29 for bellows and flex hose specifications.

### OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- T-321 or T-304 Stainless Steel Spacer Tube

### NOTES:

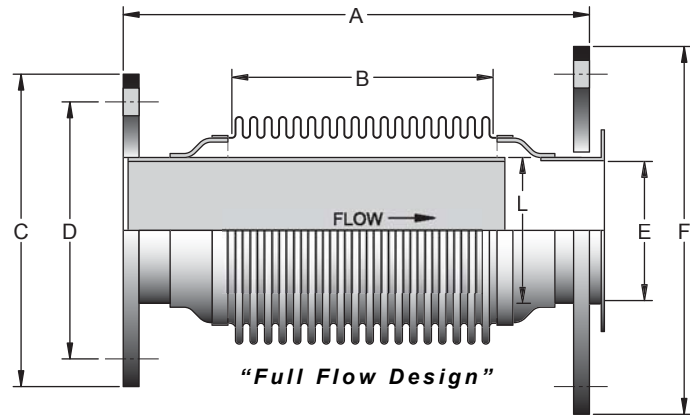
- T-321 Stainless Steel Vanstone (Standard).
- Add "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange, and "C" for Cat Inlet Flange to the End of the Part Number.
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

# DME INCORPORATED

# FULL FLOW ISOLATORS

## TYPE 32LX - FIXED X FLOATING (ANSI)

T-321 STAINLESS STEEL BELLOWS  
 T-321 STAINLESS STEEL FLOW LINER  
 T-321 STAINLESS STEEL VANSTONE STUB  
 T-321 STAINLESS STEEL TRANSITION  
 125-150# ANSI FIXED INLET FLANGE, A-36 STEEL  
 125-150# ANSI FLOATING OUTLET FLANGE, A-36 STEEL



## TYPE 32LX - MULTI-PLY BELLOWS WITH LINER

		SAME SIZE FLANGE INLET / OUTLET					INCREASE OUTLET 1 SIZE			INCREASE OUTLET 2 SIZES			
SIZE	I.D.	A	B	C	D	PART NO.	E	F	PART NO.	E	F	PART NO.	L
3"	4.50	16.00	9.00	7.50	6.00	32M0300-16LX	4.00	8.50	32M0300-4-16LX	5.00	9.00	32M0300-5-16LX	3.00
3.50"	5.00	16.00	9.00	8.50	7.00	32M0350-16LX	4.00	9.00	32M0350-4-16LX	5.00	10.00	32M0350-5-16LX	3.50
4"	6.00	16.00	9.00	9.00	7.50	32M0400-16LX	5.00	10.00	32M0400-5-16LX	6.00	11.00	32M0400-6-16LX	4.00
5"	6.63	16.00	9.00	10.00	8.50	32M0500-16LX	6.00	11.00	32M0500-6-16LX	8.00	13.50	32M0500-8-16LX	5.00
6"	8.00	16.00	9.00	11.00	9.50	32M0600-16LX	8.00	13.50	32M0600-8-16LX	10.00	16.00	32M0600-10-16LX	6.00
8"	10.00	16.00	9.00	13.50	11.75	32M0800-16LX	10.00	16.00	32M0800-10-16LX	12.00	19.00	32M0800-12-16LX	8.00
10"	12.00	16.00	9.00	16.00	14.25	32M1000-16LX	12.00	19.00	32M1000-12-16LX	14.00	21.00	32M1000-14-16LX	10.00
12"	14.00	16.00	9.00	19.00	17.00	32M1200-16LX	14.00	21.00	32M1200-14-16LX	16.00	23.50	32M1200-16-16LX	12.00
14"	16.00	16.00	9.00	21.00	18.75	32M1400-16LX	16.00	23.50	32M1400-16-16LX	18.00	25.00	32M1400-18-16LX	14.00
16"	18.00	16.00	9.00	23.50	21.25	32M1600-16LX	18.00	25.00	32M1600-18-16LX	20.00	27.50	32M1600-20-16LX	16.00
18"	20.00	16.00	9.00	25.00	22.75	32M1800-16LX	20.00	27.50	32M1800-20-16LX	22.00	29.50	32M1800-22-16LX	18.00
20"	22.00	16.00	9.00	27.50	25.00	32M2000-16LX	22.00	29.50	32M2000-22-16LX	24.00	32.00	32M2000-24-16LX	20.00
22"	24.00	16.00	9.00	29.50	27.25	32M2200-16LX	24.00	32.00	32M2200-24-16LX	26.00	34.25	32M2200-26-16LX	22.00
24"	26.00	16.00	9.00	32.00	29.50	32M2400-16LX	26.00	34.25	32M2400-26-16LX	30.00	38.75	32M2400-30-16LX	24.00

## TYPE 32LX - SINGLE-PLY BELLOWS WITH LINER

		SAME SIZE FLANGE INLET / OUTLET					INCREASE OUTLET 1 SIZE			INCREASE OUTLET 2 SIZES			
SIZE	I.D.	A	B	C	D	PART NO.	E	F	PART NO.	E	F	PART NO.	L
3"	4.50	16.00	9.00	7.50	6.00	32S0300-16LX	4.00	8.50	32S0300-4-16LX	5.00	9.00	32S0300-5-16LX	3.00
3.50"	5.00	16.00	9.00	8.50	7.00	32S0350-16LX	4.00	9.00	32S0350-4-16LX	5.00	10.00	32S0350-5-16LX	3.50
4"	6.00	16.00	9.00	9.00	7.50	32S0400-16LX	5.00	10.00	32S0400-5-16LX	6.00	11.00	32S0400-6-16LX	4.00
5"	6.63	16.00	9.00	10.00	8.50	32S0500-16LX	6.00	11.00	32S0500-6-16LX	8.00	13.50	32S0500-8-16LX	5.00
6"	8.00	16.00	9.00	11.00	9.50	32S0600-16LX	8.00	13.50	32S0600-8-16LX	10.00	16.00	32S0600-10-16LX	6.00
8"	10.00	16.00	9.00	13.50	11.75	32S0800-16LX	10.00	16.00	32S0800-10-16LX	12.00	19.00	32S0800-12-16LX	8.00
10"	12.00	16.00	9.00	16.00	14.25	32S1000-16LX	12.00	19.00	32S1000-12-16LX	14.00	21.00	32S1000-14-16LX	10.00
12"	14.00	16.00	9.00	19.00	17.00	32S1200-16LX	14.00	21.00	32S1200-14-16LX	16.00	23.50	32S1200-16-16LX	12.00
14"	16.00	16.00	9.00	21.00	18.75	32S1400-16LX	16.00	23.50	32S1400-16-16LX	18.00	25.00	32S1400-18-16LX	14.00
16"	18.00	16.00	9.00	23.50	21.25	32S1600-16LX	18.00	25.00	32S1600-18-16LX	20.00	27.50	32S1600-20-16LX	16.00
18"	20.00	16.00	9.00	25.00	22.75	32S1800-16LX	20.00	27.50	32S1800-20-16LX	22.00	29.50	32S1800-22-16LX	18.00
20"	22.00	16.00	9.00	27.50	25.00	32S2000-16LX	22.00	29.50	32S2000-22-16LX	24.00	32.00	32S2000-24-16LX	20.00
22"	24.00	16.00	9.00	29.50	27.25	32S2200-16LX	24.00	32.00	32S2200-24-16LX	26.00	34.25	32S2200-26-16LX	22.00
24"	26.00	16.00	9.00	32.00	29.50	32S2400-16LX	26.00	34.25	32S2400-26-16LX	30.00	38.75	32S2400-30-16LX	24.00

See pages 27-29 for bellows and flex hose specifications.

### OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- T-321 or T-304 Stainless Steel Spacer Tube

### NOTES:

- T-321 Stainless Steel Vanstone (Standard).
- Add "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange, and "C" for Cat Inlet Flange to the End of the Part Number.
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

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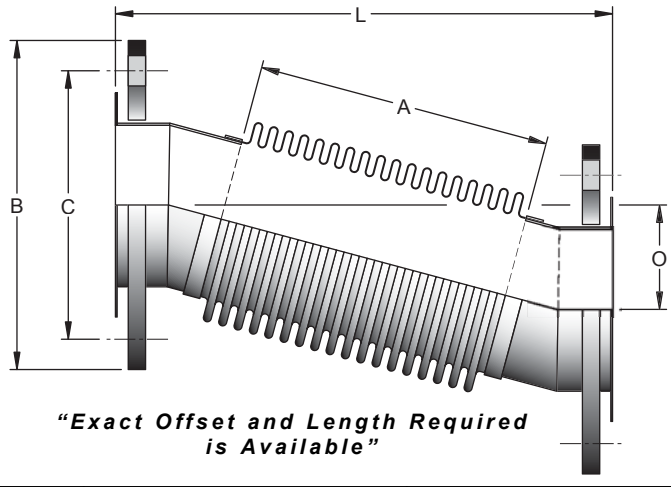
# 000000 OFFSET ISOLATORS 000000

## TYPE 30A - FLANGE OFFSET X FLANGE OFFSET

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125-150# ANSI FLOATING INLET FLANGE, A-36 STEEL  
 125-150# ANSI FLOATING OUTLET FLANGE, A-36 STEEL

### OPTIONS:

- Longer / Shorter Lengths
- Inconel 625 Bellows
- Special Flange / Metric Flange
- Cummins and Detroit Flange
- Specify Exact Offset Requirement
- Flow Liner
- Increasing / Reducing Flanges



*"Exact Offset and Length Required is Available"*

## TYPE 30A - MULTI-PLY BELLOWS

SIZE	A	B	C	HOLES	DIA	3" OFFSET			6" OFFSET			12" OFFSET		
						L	O	PART NO.	L	O	PART NO.	L	O	PART NO.
3"	9.00	7.50	6.00	4	0.75	30.00	3.00	30M0300-3A	34.00	6.00	30M0300-6A	38.00	12.00	30M0300-12A
3.50"	9.00	8.50	7.00	8	0.75	30.00	3.00	30M0350-3A	34.00	6.00	30M0350-6A	38.00	12.00	30M0350-12A
4"	9.00	9.00	7.50	8	0.75	30.00	3.00	30M0400-3A	34.00	6.00	30M0400-6A	38.00	12.00	30M0400-12A
5"	9.00	10.00	8.50	8	0.88	32.00	3.00	30M0500-3A	36.00	6.00	30M0500-6A	40.00	12.00	30M0500-12A
6"	9.00	11.00	9.50	8	0.88	32.00	3.00	30M0600-3A	36.00	6.00	30M0600-6A	40.00	12.00	30M0600-12A
8"	9.00	13.50	11.75	8	0.88	32.00	3.00	30M0800-3A	36.00	6.00	30M0800-6A	40.00	12.00	30M0800-12A
10"	9.00	16.00	14.25	12	1.00	34.00	3.00	30M1000-3A	38.00	6.00	30M1000-6A	42.00	12.00	30M1000-12A
12"	9.00	19.00	17.00	12	1.00	34.00	3.00	30M1200-3A	38.00	6.00	30M1200-6A	42.00	12.00	30M1200-12A
14"	9.00	21.00	18.75	12	1.13	38.00	3.00	30M1400-3A	42.00	6.00	30M1400-6A	48.00	12.00	30M1400-12A
16"	9.00	23.50	21.25	16	1.13	38.00	3.00	30M1600-3A	42.00	6.00	30M1600-6A	48.00	12.00	30M1600-12A
18"	9.00	25.00	22.75	16	1.25	38.00	3.00	30M1800-3A	42.00	6.00	30M1800-6A	48.00	12.00	30M1800-12A
20"	9.00	27.50	25.00	20	1.25	38.00	3.00	30M2000-3A	42.00	6.00	30M2000-6A	48.00	12.00	30M2000-12A
22"	9.00	29.50	27.25	20	1.38	38.00	3.00	30M2200-3A	42.00	6.00	30M2200-6A	48.00	12.00	30M2200-12A
24"	9.00	32.00	29.50	20	1.38	38.00	3.00	30M2400-3A	42.00	6.00	30M2400-6A	48.00	12.00	30M2400-12A

## TYPE 30A - SINGLE-PLY BELLOWS

SIZE	A	B	C	HOLES	DIA	3" OFFSET			6" OFFSET			12" OFFSET		
						L	O	PART NO.	L	O	PART NO.	L	O	PART NO.
3"	9.00	7.50	6.00	4	0.75	30.00	3.00	30S0300-3A	34.00	6.00	30S0300-6A	38.00	12.00	30S0300-12A
3.50"	9.00	8.50	7.00	8	0.75	30.00	3.00	30S0350-3A	34.00	6.00	30S0350-6A	38.00	12.00	30S0350-12A
4"	9.00	9.00	7.50	8	0.75	30.00	3.00	30S0400-3A	34.00	6.00	30S0400-6A	38.00	12.00	30S0400-12A
5"	9.00	10.00	8.50	8	0.88	32.00	3.00	30S0500-3A	36.00	6.00	30S0500-6A	40.00	12.00	30S0500-12A
6"	9.00	11.00	9.50	8	0.88	32.00	3.00	30S0600-3A	36.00	6.00	30S0600-6A	40.00	12.00	30S0600-12A
8"	9.00	13.50	11.75	8	0.88	32.00	3.00	30S0800-3A	36.00	6.00	30S0800-6A	40.00	12.00	30S0800-12A
10"	9.00	16.00	14.25	12	1.00	34.00	3.00	30S1000-3A	38.00	6.00	30S1000-6A	42.00	12.00	30S1000-12A
12"	9.00	19.00	17.00	12	1.00	34.00	3.00	30S1200-3A	38.00	6.00	30S1200-6A	42.00	12.00	30S1200-12A
14"	9.00	21.00	18.75	12	1.13	38.00	3.00	30S1400-3A	42.00	6.00	30S1400-6A	48.00	12.00	30S1400-12A
16"	9.00	23.50	21.25	16	1.13	38.00	3.00	30S1600-3A	42.00	6.00	30S1600-6A	48.00	12.00	30S1600-12A
18"	9.00	25.00	22.75	16	1.25	38.00	3.00	30S1800-3A	42.00	6.00	30S1800-6A	48.00	12.00	30S1800-12A
20"	9.00	27.50	25.00	20	1.25	38.00	3.00	30S2000-3A	42.00	6.00	30S2000-6A	48.00	12.00	30S2000-12A
22"	9.00	29.50	27.25	20	1.38	38.00	3.00	30S2200-3A	42.00	6.00	30S2200-6A	48.00	12.00	30S2200-12A
24"	9.00	32.00	29.50	20	1.38	38.00	3.00	30S2400-3A	42.00	6.00	30S2400-6A	48.00	12.00	30S2400-12A

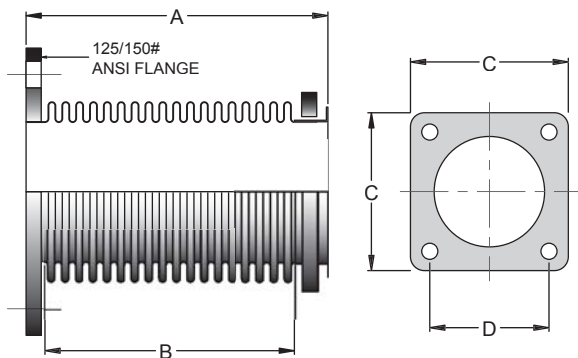
## TYPE 30A - FLEX HOSE

SIZE	A	B	C	HOLES	DIA	3" OFFSET			6" OFFSET			12" OFFSET		
						L	O	PART NO.	L	O	PART NO.	L	O	PART NO.
3"	17.00	7.50	6.00	4	0.75	30.00	3.00	30S0300-3A	34.00	6.00	30S0300-6A	38.00	12.00	30S0300-12A
3.50"	17.00	8.50	7.00	8	0.75	30.00	3.00	30S0350-3A	34.00	6.00	30S0350-6A	38.00	12.00	30S0350-12A
4"	17.00	9.00	7.50	8	0.75	30.00	3.00	30S0400-3A	34.00	6.00	30S0400-6A	38.00	12.00	30S0400-12A
5"	17.00	10.00	8.50	8	0.88	32.00	3.00	30S0500-3A	36.00	6.00	30S0500-6A	40.00	12.00	30S0500-12A
6"	17.00	11.00	9.50	8	0.88	32.00	3.00	30S0600-3A	36.00	6.00	30S0600-6A	40.00	12.00	30S0600-12A
8"	17.00	13.50	11.75	8	0.88	32.00	3.00	30S0800-3A	36.00	6.00	30S0800-6A	40.00	12.00	30S0800-12A
10"	17.00	16.00	14.25	12	1.00	34.00	3.00	30S1000-3A	38.00	6.00	30S1000-6A	42.00	12.00	30S1000-12A
12"	17.00	19.00	17.00	12	1.00	34.00	3.00	30S1200-3A	38.00	6.00	30S1200-6A	42.00	12.00	30S1200-12A
14"	17.00	21.00	18.75	12	1.13	38.00	3.00	30S1400-3A	42.00	6.00	30S1400-6A	48.00	12.00	30S1400-12A
16"	17.00	23.50	21.25	16	1.13	38.00	3.00	30S1600-3A	42.00	6.00	30S1600-6A	48.00	12.00	30S1600-12A
18"	17.00	25.00	22.75	16	1.25	38.00	3.00	30S1800-3A	42.00	6.00	30S1800-6A	48.00	12.00	30S1800-12A



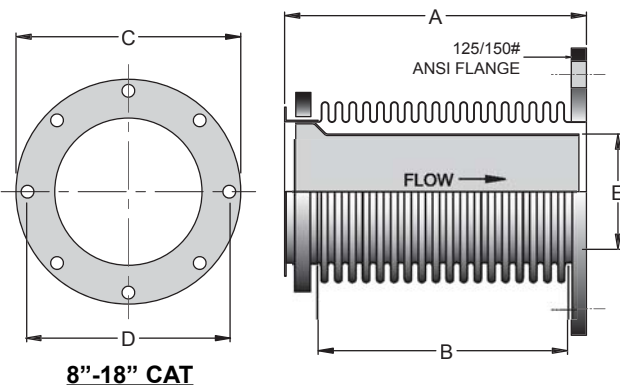
## TYPE 13C - FLOATING CAT X FIXED ANSI

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125/150# ANSI CARBON STEEL OUTLET FLANGE  
 A-36 CARBON STEEL FLOATING CAT INLET FLANGE  
 T-321 STAINLESS STEEL VANSTONE STUB END



## TYPE 13CL - FLOATING CAT X FIXED ANSI

T-321 STAINLESS STEEL BELLOWS / FLEX WITH FLOW LINER  
 125/150# ANSI CARBON STEEL OUTLET FLANGE  
 A-36 CARBON STEEL FLOATING CAT INLET FLANGE  
 T-321 STAINLESS STEEL VANSTONE STUB END



## TYPE 13C - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	12.00	9.00	5.50	4.15	4	0.56	13M0400-12C
5"	12.00	9.00	6.50	5.00	4	0.75	13M0500-12C
6"	12.00	9.00	8.00	6.00	4	0.88	13M0600-12C
8"	12.00	9.00	11.00	9.88	8	0.56	13M0800-12C
10"	12.00	9.00	13.50	12.44	12	0.50	13M1000-12C
12"	12.00	9.00	15.75	14.81	12	0.50	13M1200-12C
14"	12.00	9.00	17.10	16.13	12	0.50	13M1401-12C
14"	12.00	9.00	17.94	16.94	12	0.56	13M1402-12C
16"	12.00	9.00	23.50	21.25	16	0.81	13M1600-12C
18"	12.00	9.00	21.85	20.88	16	0.54	13M1800-12C

## TYPE 13CL - MULTI-PLY BELLOWS WITH LINER

SIZE	A	B	C	D	E	PART NO.
4"	12.00	9.00	5.50	4.15	3.25	13M0400-12CL
5"	12.00	9.00	6.50	5.00	4.25	13M0500-12CL
6"	12.00	9.00	8.00	6.00	5.25	13M0600-12CL
8"	12.00	9.00	11.00	9.88	7.25	13M0800-12CL
10"	12.00	9.00	13.50	12.44	9.00	13M1000-12CL
12"	12.00	9.00	15.75	14.81	11.00	13M1200-12CL
14"	12.00	9.00	17.10	16.13	13.00	13M1401-12CL
14"	12.00	9.00	17.94	16.94	13.00	13M1402-12CL
16"	12.00	9.00	23.50	21.25	15.00	13M1600-12CL
18"	12.00	9.00	21.85	20.88	17.00	13M1800-12CL

## TYPE 13C - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	12.00	9.00	5.50	4.15	4	0.56	13S0400-12C
5"	12.00	9.00	6.50	5.00	4	0.75	13S0500-12C
6"	12.00	9.00	8.00	6.00	4	0.88	13S0600-12C
8"	12.00	9.00	11.00	9.88	8	0.56	13S0800-12C
10"	12.00	9.00	13.50	12.44	12	0.50	13S1000-12C
12"	12.00	9.00	15.75	14.81	12	0.50	13S1200-12C
14"	12.00	9.00	17.10	16.13	12	0.50	13S1401-12C
14"	12.00	9.00	17.94	16.94	12	0.56	13S1402-12C
16"	12.00	9.00	23.50	21.25	16	0.81	13S1600-12C
18"	12.00	9.00	21.85	20.88	16	0.54	13S1800-12C

## TYPE 13CL - SINGLE-PLY BELLOWS WITH LINER

SIZE	A	B	C	D	E	PART NO.
4"	12.00	9.00	5.50	4.15	3.25	13S0400-12CL
5"	12.00	9.00	6.50	5.00	4.25	13S0500-12CL
6"	12.00	9.00	8.00	6.00	5.25	13S0600-12CL
8"	12.00	9.00	11.00	9.88	7.25	13S0800-12CL
10"	12.00	9.00	13.50	12.44	9.00	13S1000-12CL
12"	12.00	9.00	15.75	14.81	11.00	13S1200-12CL
14"	12.00	9.00	17.10	16.13	13.00	13S1401-12CL
14"	12.00	9.00	17.94	16.94	13.00	13S1402-12CL
16"	12.00	9.00	23.50	21.25	15.00	13S1600-12CL
18"	12.00	9.00	21.85	20.88	17.00	13S1800-12CL

## TYPE 13C - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	20.00	17.00	5.50	4.15	4	0.56	13F0400-20C
5"	20.00	17.00	6.50	5.00	4	0.75	13F0500-20C
6"	20.00	17.00	8.00	6.00	4	0.88	13F0600-20C
8"	20.00	17.00	11.00	9.88	8	0.56	13F0800-20C
10"	20.00	17.00	13.50	12.44	12	0.50	13F1000-20C
12"	20.00	17.00	15.75	14.81	12	0.50	13F1200-20C
14"	20.00	17.00	17.10	16.13	12	0.50	13F1401-20C
14"	20.00	17.00	17.94	16.94	12	0.56	13F1402-20C
16"	20.00	17.00	23.50	21.25	16	0.81	13F1600-20C
18"	20.00	17.00	21.85	20.88	16	0.54	13F1800-20C

See pages 27-29 for bellows and flex hose specifications.

### NOTES:

- T-321 Stainless Steel Vanstone (Standard).
- Change "C" to "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange.
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

### OPTIONS:

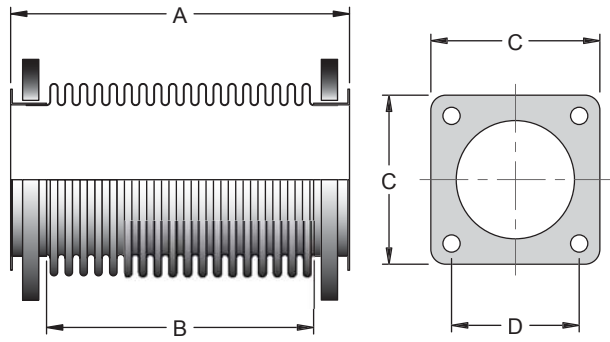
- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows



# CAT VIBRATION ISOLATORS

## TYPE 31B - FLOATING X FLOATING (CAT.)

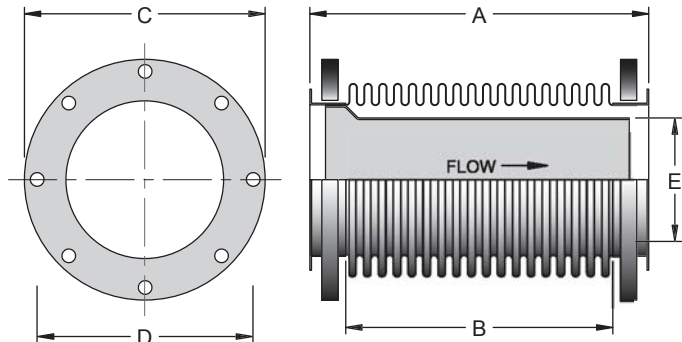
T-321 STAINLESS STEEL BELLOWS / FLEX  
A-36 CARBON STEEL FLOATING CAT FLANGES EACH END  
T-321 STAINLESS STEEL VANSTONE STUB ENDS



**4", 5", & 6" CAT**

## TYPE 31BL - FLOATING X FLOATING (CAT.)

T-321 STAINLESS STEEL BELLOWS / FLEX WITH FLOW LINER  
A-36 CARBON STEEL FLOATING CAT FLANGES EACH END  
T-321 STAINLESS STEEL VANSTONE STUB ENDS



**8"-18" CAT**

## TYPE 31B - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	13.00	9.00	5.50	4.15	4	0.56	31M0400-13B
5"	13.00	9.00	6.50	5.00	4	0.75	31M0500-13B
6"	13.00	9.00	8.00	6.00	4	0.88	31M0600-13B
8"	13.00	9.00	11.00	9.88	8	0.56	31M0800-13B
10"	13.00	9.00	13.50	12.44	12	0.50	31M1000-13B
12"	13.00	9.00	15.75	14.81	12	0.50	31M1200-13B
14"	13.00	9.00	17.10	16.13	12	0.50	31M1401-13B
14"	13.00	9.00	17.94	16.94	12	0.56	31M1402-13B
16"	13.00	9.00	23.50	21.25	16	0.81	31M1600-13B
18"	13.00	9.00	21.85	20.88	16	0.54	31M1800-13B

## TYPE 31BL - MULTI-PLY BELLOWS WITH LINER

SIZE	A	B	C	D	E	PART NO.
4"	13.00	9.00	5.50	4.15	3.25	31M0400-13BL
5"	13.00	9.00	6.50	5.00	4.25	31M0500-13BL
6"	13.00	9.00	8.00	6.00	5.25	31M0600-13BL
8"	13.00	9.00	11.00	9.88	7.25	31M0800-13BL
10"	13.00	9.00	13.50	12.44	9.00	31M1000-13BL
12"	13.00	9.00	15.75	14.81	11.00	31M1200-13BL
14"	13.00	9.00	17.10	16.13	13.00	31M1401-13BL
14"	13.00	9.00	17.94	16.94	13.00	31M1402-13BL
16"	13.00	9.00	23.50	21.25	15.00	31M1600-13BL
18"	13.00	9.00	21.85	20.88	17.00	31M1800-13BL

## TYPE 31B - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	13.00	9.00	5.50	4.15	4	0.56	31S0400-13B
5"	13.00	9.00	6.50	5.00	4	0.75	31S0500-13B
6"	13.00	9.00	8.00	6.00	4	0.88	31S0600-13B
8"	13.00	9.00	11.00	9.88	8	0.56	31S0800-13B
10"	13.00	9.00	13.50	12.44	12	0.50	31S1000-13B
12"	13.00	9.00	15.75	14.81	12	0.50	31S1200-13B
14"	13.00	9.00	17.10	16.13	12	0.50	31S1401-13B
14"	13.00	9.00	17.94	16.94	12	0.56	31S1402-13B
16"	13.00	9.00	23.50	21.25	16	0.81	31S1600-13B
18"	13.00	9.00	21.85	20.88	16	0.54	31S1800-13B

## TYPE 31BL - SINGLE-PLY BELLOWS WITH LINER

SIZE	A	B	C	D	E	PART NO.
4"	13.00	9.00	5.50	4.15	3.25	31S0400-13BL
5"	13.00	9.00	6.50	5.00	4.25	31S0500-13BL
6"	13.00	9.00	8.00	6.00	5.25	31S0600-13BL
8"	13.00	9.00	11.00	9.88	7.25	31S0800-13BL
10"	13.00	9.00	13.50	12.44	9.00	31S1000-13BL
12"	13.00	9.00	15.75	14.81	11.00	31S1200-13BL
14"	13.00	9.00	17.10	16.13	13.00	31S1401-13BL
14"	13.00	9.00	17.94	16.94	13.00	31S1402-13BL
16"	13.00	9.00	23.50	21.25	15.00	31S1600-13BL
18"	13.00	9.00	21.85	20.88	17.00	31S1800-13BL

## TYPE 31B - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
4"	22.00	17.00	5.50	4.15	4	0.56	31F0400-22B
5"	22.00	17.00	6.50	5.00	4	0.75	31F0500-22B
6"	22.00	17.00	8.00	6.00	4	0.88	31F0600-22B
8"	22.00	17.00	11.00	9.88	8	0.56	31F0800-22B
10"	22.00	17.00	13.50	12.44	12	0.50	31F1000-22B
12"	22.00	17.00	15.75	14.81	12	0.50	31F1200-22B
14"	22.00	17.00	17.10	16.13	12	0.50	31F1401-22B
14"	22.00	17.00	17.94	16.94	12	0.56	31F1402-22B
16"	22.00	17.00	23.50	21.25	16	0.81	31F1600-22B
18"	22.00	17.00	21.85	20.88	16	0.54	31F1800-22B

## OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

See pages 27-29 for bellows and flex hose specifications.

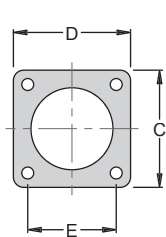
## NOTES:

- T-321 Stainless Steel Vanstone (Standard).
- Change "B" to "UU" for Cummins Flange Each End, "DD" for Detroit Flange Each End.
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

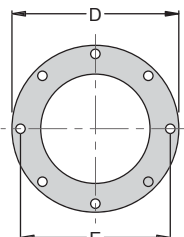


# FULL FLOW CAT ISOLATORS

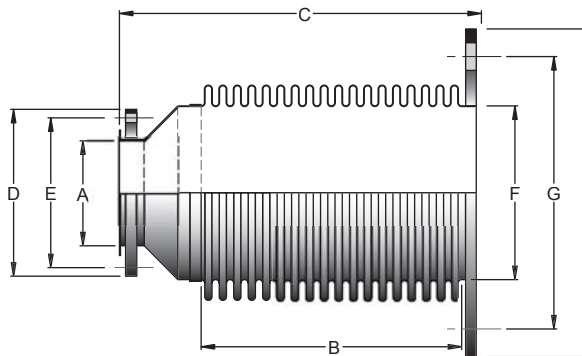
**"MINIMIZES BACK PRESSURE"**



**4", 5", & 6" CAT**



**8"-18" CAT**



## TYPE 37CV - FLANGE X CONE REDUCING FLANGE

T-321 STAINLESS STEEL BELLOWS / FLEX  
 A-36 CARBON STEEL CAT. INLET FLANGE  
 T-321 STAINLESS STEEL CONE TRANSITION  
 125/150# CARBON STEEL OUTLET FLANGE

### OPTIONS:

- Longer / Shorter Lengths
- Inconel 625 Bellows
- Special Drilled / Metric Flanges
- Flow Liner
- T-304 Stainless Steel Flanges

See pages 27-29 for bellows and flex hose specifications.

## TYPE 37CV - MULTI-PLY BELLOWS

INLET FLANGE					INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	H	PART NO.	F	G	H	PART NO.
4"	9.00	16.00	5.50	4.15	5"	8.50	10.00	37M0400-5-16CV	6"	9.50	11.00	37M0400-6-16CV
5"	9.00	16.00	6.50	5.00	6"	9.50	11.00	37M0500-6-16CV	8"	11.75	13.50	37M0500-8-16CV
6"	9.00	16.00	8.00	6.00	8"	11.75	13.50	37M0600-8-16CV	10"	14.25	16.00	37M0600-10-16CV
8"	9.00	16.00	11.00	9.88	10"	14.25	16.00	37M0800-10-16CV	12"	17.00	19.00	37M0800-12-16CV
10"	9.00	16.00	13.50	12.44	12"	17.00	19.00	37M1000-12-16CV	14"	18.75	21.00	37M1000-14-16CV
12"	9.00	16.00	15.75	14.81	14"	18.75	21.00	37M1200-14-16CV	16"	21.25	23.50	37M1200-16-16CV
14"	9.00	16.00	17.10	16.13	16"	21.25	23.50	37M1401-16-16CV	18"	22.75	25.00	37M1401-18-16CV
14"	9.00	16.00	17.94	16.94	16"	21.25	23.50	37M1402-16-16CV	18"	22.75	25.00	37M1402-18-16CV
16"	9.00	16.00	23.50	21.25	18"	22.75	25.00	37M1600-18-16CV	20"	25.00	27.50	37M1600-20-16CV
18"	9.00	16.00	21.85	20.88	20"	25.00	27.50	37M1800-20-16CV	22"	27.25	29.50	37M1800-22-16CV

## TYPE 37CV - SINGLE-PLY BELLOWS

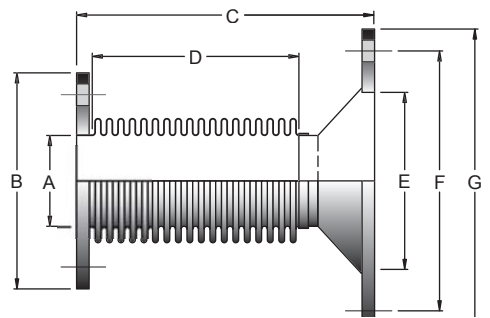
INLET FLANGE					INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	H	PART NO.	F	G	H	PART NO.
4"	9.00	16.00	5.50	4.15	5"	8.50	10.00	37S0400-5-16CV	6"	9.50	11.00	37S0400-6-16CV
5"	9.00	16.00	6.50	5.00	6"	9.50	11.00	37S0500-6-16CV	8"	11.75	13.50	37S0500-8-16CV
6"	9.00	16.00	8.00	6.00	8"	11.75	13.50	37S0600-8-16CV	10"	14.25	16.00	37S0600-10-16CV
8"	9.00	16.00	11.00	9.88	10"	14.25	16.00	37S0800-10-16CV	12"	17.00	19.00	37S0800-12-16CV
10"	9.00	16.00	13.50	12.44	12"	17.00	19.00	37S1000-12-16CV	14"	18.75	21.00	37S1000-14-16CV
12"	9.00	16.00	15.75	14.81	14"	18.75	21.00	37S1200-14-16CV	16"	21.25	23.50	37S1200-16-16CV
14"	9.00	16.00	17.10	16.13	16"	21.25	23.50	37S1401-16-16CV	18"	22.75	25.00	37S1401-18-16CV
14"	9.00	16.00	17.94	16.94	16"	21.25	23.50	37S1402-16-16CV	18"	22.75	25.00	37S1402-18-16CV
16"	9.00	16.00	23.50	21.25	18"	22.75	25.00	37S1600-18-16CV	20"	25.00	27.50	37S1600-20-16CV
18"	9.00	16.00	21.85	20.88	20"	25.00	27.50	37S1800-20-16CV	22"	27.25	29.50	37S1800-22-16CV

## TYPE 37CV - FLEX HOSE

INLET FLANGE					INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	H	PART NO.	F	G	H	PART NO.
4"	17.00	24.00	5.50	4.15	5"	8.50	10.00	37F0400-5-24CV	6"	9.50	11.00	37F0400-6-24CV
5"	17.00	24.00	6.50	5.00	6"	9.50	11.00	37F0500-6-24CV	8"	11.75	13.50	37F0500-8-24CV
6"	17.00	24.00	8.00	6.00	8"	11.75	13.50	37F0600-8-24CV	10"	14.25	16.00	37F0600-10-24CV
8"	17.00	24.00	11.00	9.88	10"	14.25	16.00	37F0800-10-24CV	12"	17.00	19.00	37F0800-12-24CV
10"	17.00	24.00	13.50	12.44	12"	17.00	19.00	37F1000-12-24CV	14"	18.75	21.00	37F1000-14-24CV
12"	17.00	24.00	15.75	14.81	14"	18.75	21.00	37F1200-14-24CV	16"	21.25	23.50	37F1200-16-24CV
14"	17.00	24.00	17.10	16.13	16"	21.25	23.50	37F1401-16-24CV	18"	22.75	25.00	37F1401-18-24CV
14"	17.00	24.00	17.94	16.94	16"	21.25	23.50	37F1402-16-24CV	18"	22.75	25.00	37F1402-18-24CV
16"	17.00	24.00	23.50	21.25	18"	22.75	25.00	37F1600-18-24CV	20"	25.00	27.50	37F1600-20-24CV
18"	17.00	24.00	21.85	20.88	20"	25.00	27.50	37F1800-20-24CV	22"	27.25	29.50	37F1800-22-24CV

# DME INCORPORATED

# VIBRATION ISOLATORS



## TYPE 12 - FLANGE X CONE INCREASER FLANGE

T-321 STAINLESS STEEL BELLOWS / FLEX  
 125/150# ANSI CARBON STEEL INLET FLANGE  
 T-321 STAINLESS STEEL CONE TRANSITION  
 125/150# ANSI CARBON STEEL OUTLET FLANGE

### OPTIONS:

- Longer / Shorter Lengths
- Inconel 625 Bellows
- Special Drilled / Metric Flanges
- Flow Liner
- Cummins and Detroit Flanges
- T-304 Stainless Steel Flanges

## TYPE 12 - MULTI-PLY BELLOWS

INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	PART NO.	E	F	G	PART NO.
3"	7.50	14.00	9.00	4"	7.50	9.00	12M0300-4-14	5"	9.00	10.00	12M0300-5-14
3.50"	8.50	14.00	9.00	4"	7.50	9.00	12M0350-4-14	5"	8.50	10.00	12M0350-5-14
4"	9.00	14.00	9.00	5"	8.50	10.00	12M0400-5-14	6"	9.50	11.00	12M0400-6-14
5"	10.00	14.00	9.00	6"	9.50	11.00	12M0500-6-14	8"	11.75	13.50	12M0500-8-14
6"	11.00	14.00	9.00	8"	11.75	13.50	12M0600-8-14	10"	14.25	16.00	12M0600-10-14
8"	13.50	14.00	9.00	10"	14.25	16.00	12M0800-10-14	12"	17.00	19.00	12M0800-12-14
10"	16.00	14.00	9.00	12"	17.00	19.00	12M1000-12-14	14"	18.75	21.00	12M1000-14-14
12"	19.00	14.00	9.00	14"	18.75	21.00	12M1200-14-14	16"	21.25	23.50	12M1200-16-14
14"	21.00	14.00	9.00	16"	21.25	23.50	12M1400-16-14	18"	22.75	25.00	12M1400-18-14
16"	23.50	14.00	9.00	18"	22.75	25.00	12M1600-18-14	20"	25.00	27.50	12M1600-20-14
18"	25.00	14.00	9.00	20"	25.00	27.50	12M1800-20-14	22"	27.25	29.50	12M1800-22-14
20"	27.50	14.00	9.00	22"	27.25	29.50	12M2000-22-14	24"	29.50	32.00	12M2000-24-14
22"	29.50	14.00	9.00	24"	29.50	32.00	12M2200-24-14	26"	31.75	34.25	12M2200-26-14
24"	32.00	14.00	9.00	26"	31.75	34.25	12M2400-26-14	30"	36.00	38.75	12M2400-30-14

## TYPE 12 - SINGLE-PLY BELLOWS

INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	PART NO.	E	F	G	PART NO.
3"	7.50	14.00	9.00	4"	7.50	9.00	12S0300-4-14	5"	9.00	10.00	12S0300-5-14
3.50"	8.50	14.00	9.00	4"	7.50	9.00	12S0350-4-14	5"	8.50	10.00	12S0350-5-14
4"	9.00	14.00	9.00	5"	8.50	10.00	12S0400-5-14	6"	9.50	11.00	12S0400-6-14
5"	10.00	14.00	9.00	6"	9.50	11.00	12S0500-6-14	8"	11.75	13.50	12S0500-8-14
6"	11.00	14.00	9.00	8"	11.75	13.50	12S0600-8-14	10"	14.25	16.00	12S0600-10-14
8"	13.50	14.00	9.00	10"	14.25	16.00	12S0800-10-14	12"	17.00	19.00	12S0800-12-14
10"	16.00	14.00	9.00	12"	17.00	19.00	12S1000-12-14	14"	18.75	21.00	12S1000-14-14
12"	19.00	14.00	9.00	14"	18.75	21.00	12S1200-14-14	16"	21.25	23.50	12S1200-16-14
14"	21.00	14.00	9.00	16"	21.25	23.50	12S1400-16-14	18"	22.75	25.00	12S1400-18-14
16"	23.50	14.00	9.00	18"	22.75	25.00	12S1600-18-14	20"	25.00	27.50	12S1600-20-14
18"	25.00	14.00	9.00	20"	25.00	27.50	12S1800-20-14	22"	27.25	29.50	12S1800-22-14
20"	27.50	14.00	9.00	22"	27.25	29.50	12S2000-22-14	24"	29.50	32.00	12S2000-24-14
22"	29.50	14.00	9.00	24"	29.50	32.00	12S2200-24-14	26"	31.75	34.25	12S2200-26-14
24"	32.00	14.00	9.00	26"	31.75	34.25	12S2400-26-14	30"	36.00	38.75	12S2400-30-14

## TYPE 12 - FLEX HOSE

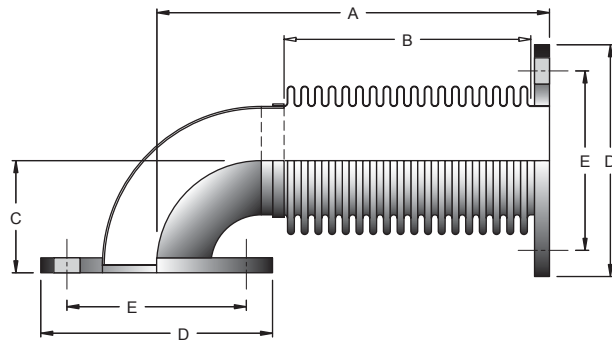
INLET FLANGE				INCREASE OUTLET 1 SIZE				INCREASE OUTLET 2 SIZES			
A	B	C	D	E	F	G	PART NO.	E	F	G	PART NO.
3"	7.50	21.00	17.00	4"	7.50	9.00	12F0300-4-21	5"	9.00	10.00	12F0300-5-21
3.50"	8.50	21.00	17.00	4"	7.50	9.00	12F0350-4-21	5"	8.50	10.00	12F0350-5-21
4"	9.00	21.00	17.00	5"	8.50	10.00	12F0400-5-21	6"	9.50	11.00	12F0400-6-21
5"	10.00	21.00	17.00	6"	9.50	11.00	12F0500-6-21	8"	11.75	13.50	12F0500-8-21
6"	11.00	21.00	17.00	8"	11.75	13.50	12F0600-8-21	10"	14.25	16.00	12F0600-10-21
8"	13.50	21.00	17.00	10"	14.25	16.00	12F0800-10-21	12"	17.00	19.00	12F0800-12-21
10"	16.00	21.00	17.00	12"	17.00	19.00	12F1000-12-21	14"	18.75	21.00	12F1000-14-21
12"	19.00	21.00	17.00	14"	18.75	21.00	12F1200-14-21	16"	21.25	23.50	12F1200-16-21
14"	21.00	21.00	17.00	16"	21.25	23.50	12F1400-16-21	18"	22.75	25.00	12F1400-18-21
16"	23.50	21.00	17.00	18"	22.75	25.00	12F1600-18-21	20"	25.00	27.50	12F1600-20-21
18"	25.00	21.00	17.00	20"	25.00	27.50	12F1800-20-21	22"	27.25	29.50	12F1800-22-21

# DME INCORPORATED



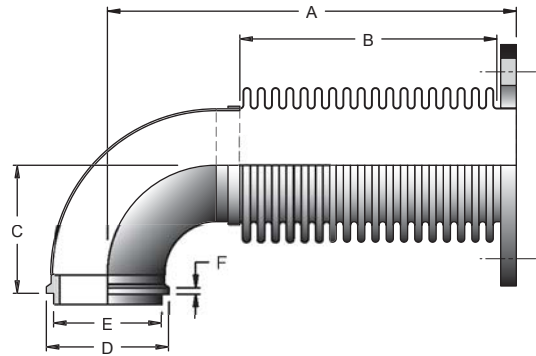
**TYPE 10 - FLANGED 90 DEG. ELBOW X FLANGE**

T-321 STAINLESS STEEL BELLOWS / FLEX  
125-150# CARBON STEEL ANSI FLANGE EACH END  
CARBON STEEL 90 DEGREE SHORT RADIUS ELBOW



**TYPE 11 - FLANGE X 90 DEG. TURBO FLANGE**

T-321 STAINLESS STEEL BELLOWS / FLEX  
125-150# CARBON STEEL ANSI FLANGE ONE END  
DETROIT TURBO FLANGE OTHER END  
CARBON STEEL 90 DEGREE SHORT RADIUS ELBOW



**TYPE 10 - MULTI-PLY BELLOWS**

SIZE	A	B	C	D	E	DIA.	PART NO.
3"	13.75	9.00	3.50	7.50	6.00	0.75	10M0300-13.75
3-1/2"	14.25	9.00	4.00	8.50	7.00	0.75	10M0350-14.25
4"	14.75	9.00	4.50	9.00	7.50	0.75	10M0400-14.75
5"	16.25	9.00	6.00	10.00	8.50	0.88	10M0500-16.25
6"	16.75	9.00	6.50	11.00	9.50	0.88	10M0600-16.75
8"	20.75	9.00	10.38	13.50	11.75	0.88	10M0800-20.75
10"	21.75	9.00	11.50	16.00	14.25	1.00	10M1000-21.75
12"	22.75	9.00	12.50	19.00	17.00	1.00	10M1200-22.75

**TYPE 11 - MULTI-PLY BELLOWS**

SIZE	A	B	C	D	E	F	PART NO.
3-1/2"	14.25	9.00	4.25	4.00	3.49	0.22	11M0350-14.25
4"	14.75	9.00	4.75	4.00	3.49	0.22	11M0400-14.75
5"	16.25	9.00	6.25	5.15	4.54	0.22	11M0500-16.25
6"	16.75	9.00	6.75	5.15	4.54	0.22	11M0600-16.75

**TYPE 10 - SINGLE-PLY BELLOWS**

SIZE	A	B	C	D	E	DIA.	PART NO.
3"	13.75	9.00	3.50	7.50	6.00	0.75	10S0300-13.75
3-1/2"	14.25	9.00	4.00	8.50	7.00	0.75	10S0350-14.25
4"	14.75	9.00	4.50	9.00	7.50	0.75	10S0400-14.75
5"	16.25	9.00	6.00	10.00	8.50	0.88	10S0500-16.25
6"	16.75	9.00	6.50	11.00	9.50	0.88	10S0600-16.75
8"	20.75	9.00	10.38	13.50	11.75	0.88	10S0800-20.75
10"	21.75	9.00	11.50	16.00	14.25	1.00	10S1000-21.75
12"	22.75	9.00	12.50	19.00	17.00	1.00	10S1200-22.75

**TYPE 11 - SINGLE-PLY BELLOWS**

SIZE	A	B	C	D	E	F	PART NO.
3-1/2"	14.25	9.00	4.25	4.00	3.49	0.22	11S0350-14.25
4"	14.75	9.00	4.75	4.00	3.49	0.22	11S0400-14.75
5"	16.25	9.00	6.25	5.15	4.54	0.22	11S0500-16.25
6"	16.75	9.00	6.75	5.15	4.54	0.22	11S0600-16.75

**TYPE 10 - FLEX HOSE**

SIZE	A	B	C	D	E	DIA.	PART NO.
3"	20.75	17.00	3.50	7.50	6.00	0.75	10F0300-20.75
3-1/2"	21.25	17.00	4.00	8.50	7.00	0.75	10F0350-21.25
4"	21.75	17.00	4.50	9.00	7.50	0.75	10F0400-21.75
5"	23.25	17.00	6.00	10.00	8.50	0.88	10F0500-23.25
6"	23.75	17.00	6.50	11.00	9.50	0.88	10F0600-23.75
8"	27.75	17.00	10.38	13.50	11.75	0.88	10F0800-27.75
10"	28.75	17.00	11.50	16.00	14.25	1.00	10F1000-28.75
12"	29.75	17.00	12.50	19.00	17.00	1.00	10F1200-29.75

**TYPE 11 - FLEX HOSE**

SIZE	A	B	C	D	E	F	PART NO.
3-1/2"	22.25	17.00	4.25	4.00	3.49	0.22	11F0350-22.25
4"	22.75	17.00	4.75	4.00	3.49	0.22	11F0400-22.75
5"	24.25	17.00	6.25	5.15	4.54	0.22	11F0500-24.25
6"	24.75	17.00	6.75	5.15	4.54	0.22	11F0600-24.75

**OPTIONS:**

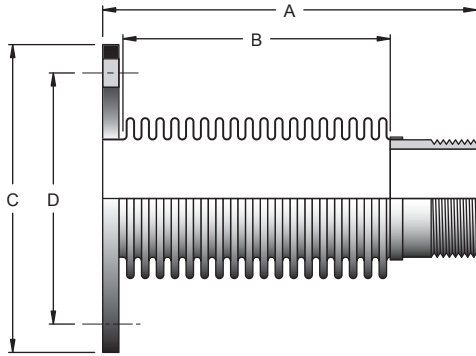
- Longer / Shorter Lengths
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- Flow Liner
- Increasing Outlet Flange

See pages 27-29 for bellows and flex hose specifications.

# VIBRATION ISOLATORS

## TYPE 3 - FIXED FLANGE X MALE NPT

T-321 STAINLESS STEEL BELLOWS & FLEX  
125-150#, ANSI A 36 CARBON STEEL FLANGE ONE END  
SCHD. 40, CARBON STEEL MALE NPT ONE END



### TYPE 3 - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	9.00	6.00	6.00	4.75	4	0.75	3M0200-9
2-1/2"	9.50	6.00	7.00	5.50	4	0.75	3M0250-9.5
3"	12.50	9.00	7.50	6.00	4	0.75	3M0300-12.5
3-1/2"	13.50	9.00	8.50	7.00	8	0.75	3M0350-13.5
4"	13.50	9.00	9.00	7.50	8	0.75	3M0400-13.5
5"	13.50	9.00	10.00	8.50	8	0.88	3M0500-13.5
6"	13.50	9.00	11.00	9.50	8	0.88	3M0600-13.5
8"	13.50	9.00	13.50	11.75	8	0.88	3M0800-13.5

### TYPE 3 - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	9.00	6.00	6.00	4.75	4	0.75	3S0200-9
2-1/2"	9.50	6.00	7.00	5.50	4	0.75	3S0250-9.5
3"	12.50	9.00	7.50	6.00	4	0.75	3S0300-12.5
3-1/2"	13.50	9.00	8.50	7.00	8	0.75	3S0350-13.5
4"	13.50	9.00	9.00	7.50	8	0.75	3S0400-13.5
5"	13.50	9.00	10.00	8.50	8	0.88	3S0500-13.5
6"	13.50	9.00	11.00	9.50	8	0.88	3S0600-13.5
8"	13.50	9.00	13.50	11.75	8	0.88	3S0800-13.5

### TYPE 3 - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	15.00	12.00	6.00	4.75	4	0.75	3F0200-15
2-1/2"	15.50	12.00	7.00	5.50	4	0.75	3F0250-15.5
3"	20.50	17.00	7.50	6.00	4	0.75	3F0300-20.5
3-1/2"	21.50	17.00	8.50	7.00	8	0.75	3F0350-21.5
4"	21.50	17.00	9.00	7.50	8	0.75	3F0400-21.5
5"	21.50	17.00	10.00	8.50	8	0.88	3F0500-21.5
6"	21.50	17.00	11.00	9.50	8	0.88	3F0600-21.5
8"	21.50	17.00	13.50	11.75	8	0.88	3F0800-21.5

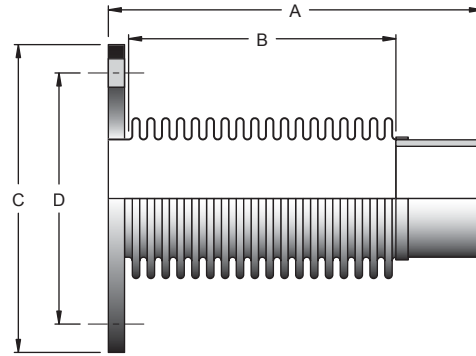
### OPTIONS:

- Longer / Shorter Lengths
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Fittings
- Inconel 625 Bellows
- Flow Liner
- Increasing Outlet Flange

See pages 27-29 for bellows and flex hose specifications.

## TYPE 4 - FIXED FLANGE X BEVELED WELD END

T-321 STAINLESS STEEL BELLOWS & FLEX  
125-150#, ANSI A 36 CARBON STEEL FLANGE ONE END  
SCHD. 40, CARBON STEEL BEVELED WELD END ONE END



### TYPE 4 - MULTI-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	9.00	6.00	6.00	4.75	4	0.75	4M0200-9
2-1/2"	9.00	6.00	7.00	5.50	4	0.75	4M0250-9
3"	12.00	9.00	7.50	6.00	4	0.75	4M0300-12
3-1/2"	12.00	9.00	8.50	7.00	8	0.75	4M0350-12
4"	12.00	9.00	9.00	7.50	8	0.75	4M0400-12
5"	12.00	9.00	10.00	8.50	8	0.88	4M0500-12
6"	12.00	9.00	11.00	9.50	8	0.88	4M0600-12
8"	12.00	9.00	13.50	11.75	8	0.88	4M0800-12

### TYPE 4 - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	9.00	6.00	6.00	4.75	4	0.75	4S0200-9
2-1/2"	9.00	6.00	7.00	5.50	4	0.75	4S0250-9
3"	12.00	9.00	7.50	6.00	4	0.75	4S0300-12
3-1/2"	12.00	9.00	8.50	7.00	8	0.75	4S0350-12
4"	12.00	9.00	9.00	7.50	8	0.75	4S0400-12
5"	12.00	9.00	10.00	8.50	8	0.88	4S0500-12
6"	12.00	9.00	11.00	9.50	8	0.88	4S0600-12
8"	12.00	9.00	13.50	11.75	8	0.88	4S0800-12

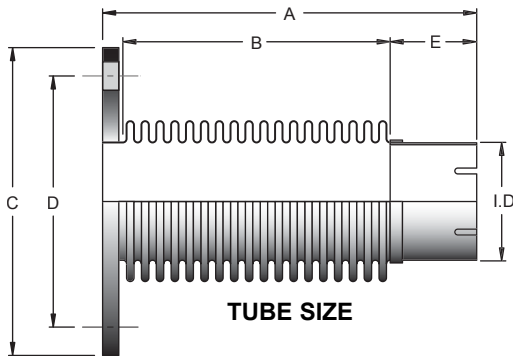
### TYPE 4 - FLEX HOSE

SIZE	A	B	C	D	HOLES	DIA	PART NO.
2"	15.00	12.00	6.00	4.75	4	0.75	4F0200-15
2-1/2"	15.00	12.00	7.00	5.50	4	0.75	4F0250-15
3"	20.00	17.00	7.50	6.00	4	0.75	4F0300-20
3-1/2"	20.00	17.00	8.50	7.00	8	0.75	4F0350-20
4"	20.00	17.00	9.00	7.50	8	0.75	4F0400-20
5"	20.00	17.00	10.00	8.50	8	0.88	4F0500-20
6"	20.00	17.00	11.00	9.50	8	0.88	4F0600-20
8"	20.00	17.00	13.50	11.75	8	0.88	4F0800-20

# DME INCORPORATED

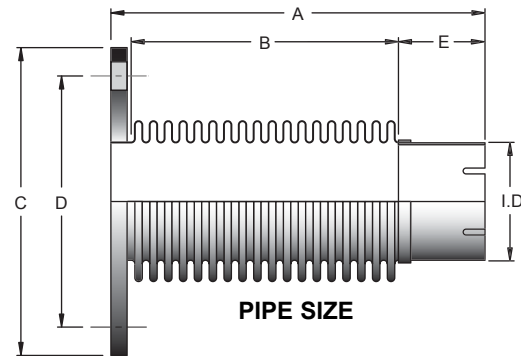
## TYPE 5T - FIXED FLANGE X SLOTTED CUFF

T-321 STAINLESS STEEL BELLOWS & FLEX  
125-150# ANSI FLANGE INLET, A-36 STEEL  
CARBON STEEL TUBE SIZE SLOTTED CUFF



## TYPE 5P - FIXED FLANGE X SLOTTED CUFF

T-321 STAINLESS STEEL BELLOWS & FLEX  
125-150# ANSI FLANGE INLET, A-36 STEEL  
CARBON STEEL PIPE SIZE SLOTTED CUFF



### TYPE 5T - MULTI-PLY BELLOWS

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	10.50	6.00	6.00	4.75	4.00	2.04	5M0200-10.5T
2-1/2"	10.50	6.00	7.00	5.50	4.00	2.54	5M0250-10.5T
3"	13.50	9.00	7.50	6.00	4.00	3.04	5M0300-13.5T
3-1/2"	13.50	9.00	8.50	7.00	4.00	3.54	5M0350-13.5T
4"	13.50	9.00	9.00	7.50	4.00	4.04	5M0400-13.5T
5"	13.50	9.00	10.00	8.50	4.00	5.04	5M0500-13.5T
6"	13.50	9.00	11.00	9.50	4.00	6.04	5M0600-13.5T
8"	13.50	9.00	13.50	11.75	4.00	8.04	5M0800-13.5T
10"	13.50	9.00	16.00	14.25	4.00	10.04	5M1000-13.5T
12"	13.50	9.00	19.00	17.00	4.00	12.04	5M1200-13.5T

### TYPE 5P - MULTI-PLY BELLOWS

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	10.50	6.00	6.00	4.75	4.00	2.42	5M0200-10.5P
2-1/2"	10.50	6.00	7.00	5.50	4.00	2.92	5M0250-10.5P
3"	13.50	9.00	7.50	6.00	4.00	3.54	5M0300-13.5P
3-1/2"	13.50	9.00	8.50	7.00	4.00	4.04	5M0350-13.5P
4"	13.50	9.00	9.00	7.50	4.00	4.54	5M0400-13.5P
5"	13.50	9.00	10.00	8.50	4.00	5.62	5M0500-13.5P
6"	13.50	9.00	11.00	9.50	4.00	6.67	5M0600-13.5P
8"	13.50	9.00	13.50	11.75	4.00	8.67	5M0800-13.5P
10"	13.50	9.00	16.00	14.25	4.00	10.79	5M1000-13.5P
12"	13.50	9.00	19.00	17.00	4.00	12.79	5M1200-13.5P

### TYPE 5T - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	10.50	6.00	6.00	4.75	4.00	2.04	5S0200-10.5T
2-1/2"	10.50	6.00	7.00	5.50	4.00	2.54	5S0250-10.5T
3"	13.50	9.00	7.50	6.00	4.00	3.04	5S0300-13.5T
3-1/2"	13.50	9.00	8.50	7.00	4.00	3.54	5S0350-13.5T
4"	13.50	9.00	9.00	7.50	4.00	4.04	5S0400-13.5T
5"	13.50	9.00	10.00	8.50	4.00	5.04	5S0500-13.5T
6"	13.50	9.00	11.00	9.50	4.00	6.04	5S0600-13.5T
8"	13.50	9.00	13.50	11.75	4.00	8.04	5S0800-13.5T
10"	13.50	9.00	16.00	14.25	4.00	10.04	5S1000-13.5T
12"	13.50	9.00	19.00	17.00	4.00	12.04	5S1200-13.5T

### TYPE 5P - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	10.50	6.00	6.00	4.75	4.00	2.42	5S0200-10.5P
2-1/2"	10.50	6.00	7.00	5.50	4.00	2.92	5S0250-10.5P
3"	13.50	9.00	7.50	6.00	4.00	3.54	5S0300-13.5P
3-1/2"	13.50	9.00	8.50	7.00	4.00	4.04	5S0350-13.5P
4"	13.50	9.00	9.00	7.50	4.00	4.54	5S0400-13.5P
5"	13.50	9.00	10.00	8.50	4.00	5.62	5S0500-13.5P
6"	13.50	9.00	11.00	9.50	4.00	6.67	5S0600-13.5P
8"	13.50	9.00	13.50	11.75	4.00	8.67	5S0800-13.5P
10"	13.50	9.00	16.00	14.25	4.00	10.79	5S1000-13.5P
12"	13.50	9.00	19.00	17.00	4.00	12.79	5S1200-13.5P

### TYPE 5T - FLEX HOSE

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	16.50	12.00	6.00	4.75	4.00	2.04	5F0200-16.5T
2-1/2"	16.50	12.00	7.00	5.50	4.00	2.54	5F0250-16.5T
3"	21.50	17.00	7.50	6.00	4.00	3.04	5F0300-21.5T
3-1/2"	21.50	17.00	8.50	7.00	4.00	3.54	5F0350-21.5T
4"	21.50	17.00	9.00	7.50	4.00	4.04	5F0400-21.5T
5"	21.50	17.00	10.00	8.50	4.00	5.04	5F0500-21.5T
6"	21.50	17.00	11.00	9.50	4.00	6.04	5F0600-21.5T
8"	21.50	17.00	13.50	11.75	4.00	8.04	5F0800-21.5T
10"	21.50	17.00	16.00	14.25	4.00	10.04	5F1000-21.5T
12"	21.50	17.00	19.00	17.00	4.00	12.04	5F1200-21.5T

### TYPE 5P - FLEX HOSE

SIZE	A	B	C	D	E	I.D.	PART NO.
2"	16.50	12.00	6.00	4.75	4.00	2.42	5F0200-16.5P
2-1/2"	16.50	12.00	7.00	5.50	4.00	2.92	5F0250-16.5P
3"	21.50	17.00	7.50	6.00	4.00	3.54	5F0300-21.5P
3-1/2"	21.50	17.00	8.50	7.00	4.00	4.04	5F0350-21.5P
4"	21.50	17.00	9.00	7.50	4.00	4.54	5F0400-21.5P
5"	21.50	17.00	10.00	8.50	4.00	5.62	5F0500-21.5P
6"	21.50	17.00	11.00	9.50	4.00	6.67	5F0600-21.5P
8"	21.50	17.00	13.50	11.75	4.00	8.67	5F0800-21.5P
10"	21.50	17.00	16.00	14.25	4.00	10.79	5F1000-21.5P
12"	21.50	17.00	19.00	17.00	4.00	12.79	5F1200-21.5P

#### OPTIONS:

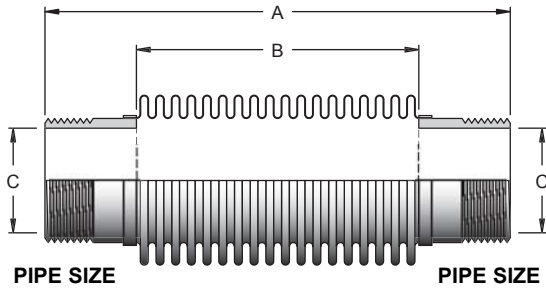
- Longer / Shorter Lengths
- T-321 Stainless Steel Flow Liners
- Increasing Outlet Flange
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Cuffs
- T-304 Stainless Steel Flanges
- Available Without Slots On Request
- Inconel 625 Bellows
- Flow Liner

See pages 27-29 for bellows and flex hose specifications.

# VIBRATION ISOLATORS

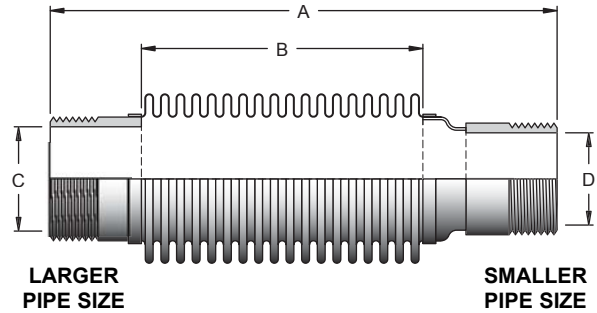
## TYPE 2 - MALE NPT X MALE NPT

T-321 STAINLESS STEEL BELLOWS / FLEX  
SCHED. 40 MALE NPT EACH END



## TYPE 17 - MALE NPT X REDUCING MALE NPT

T-321 STAINLESS STEEL BELLOWS / FLEX  
SCHED. 40 MALE NPT ONE END  
REDUCING MALE NPT OTHER END



## TYPE 2 - MULTI-PLY BELLOWS

SIZE	A	B	C	C/S NPT	S/S NPT
1"	10.00	6.00	1.00	2M0100-10	2M0100-10H
1-1/4"	10.00	6.00	1.25	2M0125-10	2M0125-10H
1-1/2"	10.00	6.00	1.50	2M0150-10	2M0150-10H
2"	11.00	6.00	2.00	2M0200-11	2M0200-11H
2-1/2"	12.00	6.00	2.50	2M0250-12	2M0250-12H
3"	15.00	9.00	3.00	2M0300-15	2M0300-15H
3-1/2"	17.00	9.00	3.50	2M0350-17	2M0350-17H
4"	17.00	9.00	4.00	2M0400-17	2M0400-17H
5"	17.00	9.00	5.00	2M0500-17	2M0500-17H
6"	17.00	9.00	6.00	2M0600-17	2M0600-17H
8"	17.00	9.00	8.00	2M0800-17	2M0800-17H

## TYPE 17 - MULTI-PLY BELLOWS

SIZE	A	B	C	D	C/S NPT	S/S NPT
1"	12.00	6.00	1.00	0.75	17M0100-12	17M0100-12H
1-1/4"	12.00	6.00	1.25	1.00	17M0125-12	17M0125-12H
1-1/2"	12.00	6.00	1.50	1.25	17M0150-12	17M0150-12H
2"	13.00	6.00	2.00	1.50	17M0200-13	17M0200-13H
2-1/2"	14.00	6.00	2.50	2.00	17M0250-14	17M0250-14H
3"	17.00	9.00	3.00	2.50	17M0300-17	17M0300-17H
3-1/2"	19.00	9.00	3.50	3.00	17M0350-19	17M0350-19H
4"	19.00	9.00	4.00	3.00	17M0400-19	17M0400-19H
5"	19.00	9.00	5.00	4.00	17M0500-19	17M0500-19H
6"	19.00	9.00	6.00	5.00	17M0600-19	17M0600-19H
8"	19.00	9.00	8.00	6.00	17M0800-19	17M0800-19H

## TYPE 2 - SINGLE-PLY BELLOWS

SIZE	A	B	C	C/S NPT	S/S NPT
1"	10.00	6.00	1.00	2S0100-10	2S0100-10H
1-1/4"	10.00	6.00	1.25	2S0125-10	2S0125-10H
1-1/2"	10.00	6.00	1.50	2S0150-10	2S0150-10H
2"	11.00	6.00	2.00	2S0200-11	2S0200-11H
2-1/2"	12.00	6.00	2.50	2S0250-12	2S0250-12H
3"	15.00	9.00	3.00	2S0300-15	2S0300-15H
3-1/2"	17.00	9.00	3.50	2S0350-17	2S0350-17H
4"	17.00	9.00	4.00	2S0400-17	2S0400-17H
5"	17.00	9.00	5.00	2S0500-17	2S0500-17H
6"	17.00	9.00	6.00	2S0600-17	2S0600-17H
8"	17.00	9.00	8.00	2S0800-17	2S0800-17H

## TYPE 17 - SINGLE-PLY BELLOWS

SIZE	A	B	C	D	C/S NPT	S/S NPT
1"	12.00	6.00	1.00	0.75	17S0100-12	17S0100-12H
1-1/4"	12.00	6.00	1.25	1.00	17S0125-12	17S0125-12H
1-1/2"	12.00	6.00	1.50	1.25	17S0150-12	17S0150-12H
2"	13.00	6.00	2.00	1.50	17S0200-13	17S0200-13H
2-1/2"	14.00	6.00	2.50	2.00	17S0250-14	17S0250-14H
3"	17.00	9.00	3.00	2.50	17S0300-17	17S0300-17H
3-1/2"	19.00	9.00	3.50	3.00	17S0350-19	17S0350-19H
4"	19.00	9.00	4.00	3.00	17S0400-19	17S0400-19H
5"	19.00	9.00	5.00	4.00	17S0500-19	17S0500-19H
6"	19.00	9.00	6.00	5.00	17S0600-19	17S0600-19H
8"	19.00	9.00	8.00	6.00	17S0800-19	17S0800-19H

## TYPE 2 - FLEX HOSE

SIZE	A	B	C	C/S NPT	S/S NPT
1"	16.00	12.00	1.00	2F0100-16	2F0100-16H
1-1/4"	16.00	12.00	1.25	2F0125-16	2F0125-16H
1-1/2"	16.00	12.00	1.50	2F0150-16	2F0150-16H
2"	17.00	12.00	2.00	2F0200-17	2F0200-17H
2-1/2"	18.00	12.00	2.50	2F0250-18	2F0250-18H
3"	23.00	17.00	3.00	2F0300-23	2F0300-23H
3-1/2"	25.00	17.00	3.50	2F0350-25	2F0350-25H
4"	25.00	17.00	4.00	2F0400-25	2F0400-25H
5"	25.00	17.00	5.00	2F0500-25	2F0500-25H
6"	25.00	17.00	6.00	2F0600-25	2F0600-25H
8"	25.00	17.00	8.00	2F0800-25	2F0800-25H

## TYPE 17 - FLEX HOSE

SIZE	A	B	C	D	C/S NPT	S/S NPT
1"	18.00	12.00	1.00	0.75	17F0100-18	17F0100-18H
1-1/4"	18.00	12.00	1.25	1.00	17F0125-18	17F0125-18H
1-1/2"	18.00	12.00	1.50	1.25	17F0150-18	17F0150-18H
2"	19.00	12.00	2.00	1.50	17F0200-19	17F0200-19H
2-1/2"	20.00	12.00	2.50	2.00	17F0250-20	17F0250-20H
3"	25.00	17.00	3.00	2.50	17F0300-25	17F0300-25H
3-1/2"	27.00	17.00	3.50	3.00	17F0350-27	17F0350-27H
4"	27.00	17.00	4.00	3.00	17F0400-27	17F0400-27H
5"	27.00	17.00	5.00	4.00	17F0500-27	17F0500-27H
6"	27.00	17.00	6.00	5.00	17F0600-27	17F0600-27H
8"	27.00	17.00	8.00	6.00	17F0800-27	17F0800-27H

### OPTIONS:

- Longer / Shorter Lengths
- T-321 Stainless Steel Flow Liners
- Inconel 625 Bellows

See pages 27-29 for bellows and flex hose specifications.

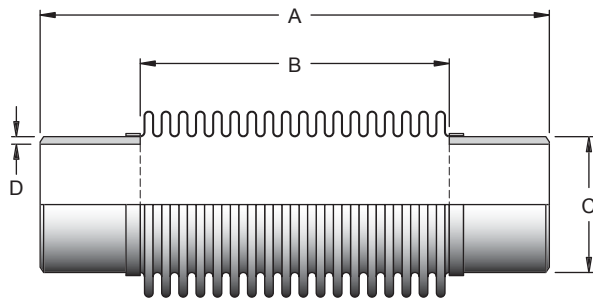
**NOTES:** Stainless Steel Fittings are T-304 Stainless Steel

# DME INCORPORATED



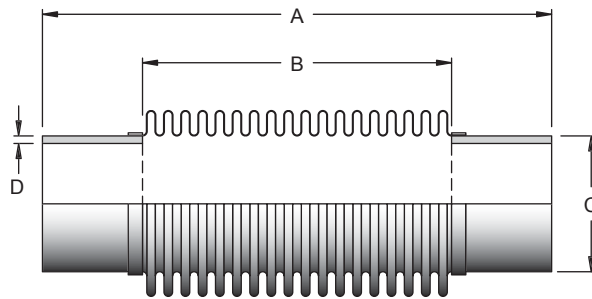
**TYPE 38 - BEVELED WELD ENDS**

T-321 STAINLESS STEEL BELLOWS / FLEX  
37 DEGREE BEVELED PIPE WELD ENDS



**TYPE 39 - SQUARE CUT TUBE ENDS**

T-321 STAINLESS STEEL BELLOWS / FLEX  
SQUARE CUT TUBE ENDS



**TYPE 38 - MULTI-PLY BELLOWS**

SIZE	A	B	C	D	C/S PIPE	S/S PIPE
3"	15.00	9.00	3.50	S-40	38M0300-15	38M0300-15H
3-1/2"	15.00	9.00	4.00	S-40	38M0350-15	38M0350-15H
4"	15.00	9.00	4.50	S-40	38M0400-15	38M0400-15H
5"	15.00	9.00	5.56	S-40	38M0500-15	38M0500-15H
6"	15.00	9.00	6.63	S-40	38M0600-15	38M0600-15H
8"	15.00	9.00	8.63	S-40	38M0800-15	38M0800-15H
10"	15.00	9.00	10.75	S-40	38M1000-15	38M1000-15H
12"	15.00	9.00	12.75	STD.	38M1200-15	38M1200-15H
14"	15.00	9.00	14.00	STD.	38M1400-15	38M1400-15H
16"	15.00	9.00	16.00	STD.	38M1600-15	38M1600-15H
18"	15.00	9.00	18.00	STD.	38M1800-15	38M1800-15H
20"	15.00	9.00	20.00	STD.	38M2000-15	38M2000-15H
22"	15.00	9.00	22.00	STD.	38M2200-15	38M2200-15H
24"	15.00	9.00	24.00	STD.	38M2400-15	38M2400-15H

**TYPE 39 - MULTI-PLY BELLOWS**

SIZE	A	B	C	D	C/S TUBE	S/S TUBE
3"	17.00	9.00	3.00	.065	39M0300-17	39M0300-17H
3-1/2"	17.00	9.00	3.50	.065	39M0350-17	39M0350-17H
4"	17.00	9.00	4.00	.065	39M0400-17	39M0400-17H
5"	17.00	9.00	5.00	.065	39M0500-17	39M0500-17H
6"	17.00	9.00	6.00	.065	39M0600-17	39M0600-17H
8"	17.00	9.00	8.00	.105	39M0800-17	39M0800-17H
10"	17.00	9.00	10.00	.135	39M1000-17	39M1000-17H
12"	17.00	9.00	12.00	.109	39M1200-17	39M1200-17H
14"	17.00	9.00	14.00	.109	39M1400-17	39M1400-17H
16"	17.00	9.00	16.00	.109	39M1600-17	39M1600-17H
18"	17.00	9.00	18.00	.135	39M1800-17	39M1800-17H
20"	17.00	9.00	20.00	.135	39M2000-17	39M2000-17H
22"	17.00	9.00	22.00	.135	39M2200-17	39M2200-17H
24"	17.00	9.00	24.00	.135	39M2400-17	39M2400-17H

**TYPE 38 - SINGLE-PLY BELLOWS**

SIZE	A	B	C	D	C/S PIPE	S/S PIPE
3"	15.00	9.00	3.50	S-40	38S0300-15	38S0300-15H
3-1/2"	15.00	9.00	4.00	S-40	38S0350-15	38S0350-15H
4"	15.00	9.00	4.50	S-40	38S0400-15	38S0400-15H
5"	15.00	9.00	5.56	S-40	38S0500-15	38S0500-15H
6"	15.00	9.00	6.63	S-40	38S0600-15	38S0600-15H
8"	15.00	9.00	8.63	S-40	38S0800-15	38S0800-15H
10"	15.00	9.00	10.75	S-40	38S1000-15	38S1000-15H
12"	15.00	9.00	12.75	STD.	38S1200-15	38S1200-15H
14"	15.00	9.00	14.00	STD.	38S1400-15	38S1400-15H
16"	15.00	9.00	16.00	STD.	38S1600-15	38S1600-15H
18"	15.00	9.00	18.00	STD.	38S1800-15	38S1800-15H
20"	15.00	9.00	20.00	STD.	38S2000-15	38S2000-15H
22"	15.00	9.00	22.00	STD.	38S2200-15	38S2200-15H
24"	15.00	9.00	24.00	STD.	38S2400-15	38S2400-15H

**TYPE 39 - SINGLE-PLY BELLOWS**

SIZE	A	B	C	D	C/S TUBE	S/S TUBE
3"	17.00	9.00	3.00	.065	39S0300-17	39S0300-17H
3-1/2"	17.00	9.00	3.50	.065	39S0350-17	39S0350-17H
4"	17.00	9.00	4.00	.065	39S0400-17	39S0400-17H
5"	17.00	9.00	5.00	.065	39S0500-17	39S0500-17H
6"	17.00	9.00	6.00	.065	39S0600-17	39S0600-17H
8"	17.00	9.00	8.00	.105	39S0800-17	39S0800-17H
10"	17.00	9.00	10.00	.135	39S1000-17	39S1000-17H
12"	17.00	9.00	12.00	.109	39S1200-17	39S1200-17H
14"	17.00	9.00	14.00	.109	39S1400-17	39S1400-17H
16"	17.00	9.00	16.00	.109	39S1600-17	39S1600-17H
18"	17.00	9.00	18.00	.135	39S1800-17	39S1800-17H
20"	17.00	9.00	20.00	.135	39S2000-17	39S2000-17H
22"	17.00	9.00	22.00	.135	39S2200-17	39S2200-17H
24"	17.00	9.00	24.00	.135	39S2400-17	39S2400-17H

**TYPE 38 - FLEX HOSE**

SIZE	A	B	C	D	C/S PIPE	S/S PIPE
3"	23.00	17.00	3.50	S-40	38F0300-23	38F0300-23H
3-1/2"	23.00	17.00	4.00	S-40	38F0350-23	38F0350-23H
4"	23.00	17.00	4.50	S-40	38F0400-23	38F0400-23H
5"	23.00	17.00	5.56	S-40	38F0500-23	38F0500-23H
6"	23.00	17.00	6.63	S-40	38F0600-23	38F0600-23H
8"	23.00	17.00	8.63	S-40	38F0800-23	38F0800-23H
10"	23.00	17.00	10.75	S-40	38F1000-23	38F1000-23H
12"	23.00	17.00	12.75	STD.	38F1200-23	38F1200-23H
14"	23.00	17.00	14.00	STD.	38F1400-23	38F1400-23H
16"	23.00	17.00	16.00	STD.	38F1600-23	38F1600-23H
18"	23.00	17.00	18.00	STD.	38F1800-23	38F1800-23H

**TYPE 39 - FLEX HOSE**

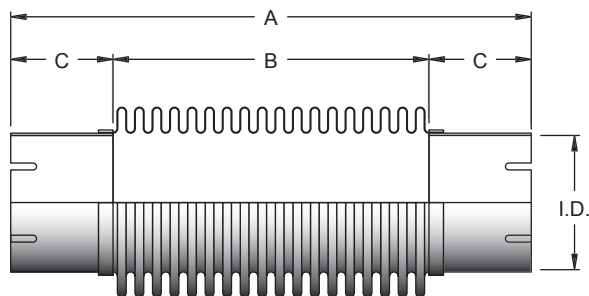
SIZE	A	B	C	D	C/S TUBE	S/S TUBE
3"	25.00	17.00	3.00	.065	39F0300-25	39F0300-25H
3-1/2"	25.00	17.00	3.50	.065	39F0350-25	39F0350-25H
4"	25.00	17.00	4.00	.065	39F0400-25	39F0400-25H
5"	25.00	17.00	5.00	.065	39F0500-25	39F0500-25H
6"	25.00	17.00	6.00	.065	39F0600-25	39F0600-25H
8"	25.00	17.00	8.00	.105	39F0800-25	39F0800-25H
10"	25.00	17.00	10.00	.135	39F1000-25	39F1000-25H
12"	25.00	17.00	12.00	.109	39F1200-25	39F1200-25H
14"	25.00	17.00	14.00	.109	39F1400-25	39F1400-25H
16"	25.00	17.00	16.00	.109	39F1600-25	39F1600-25H
18"	25.00	17.00	18.00	.135	39F1800-25	39F1800-25H

See pages 27-29 for bellows and flex hose specifications.

# VIBRATION ISOLATORS

## TYPE 9T - SLOTTED CUFF EACH END

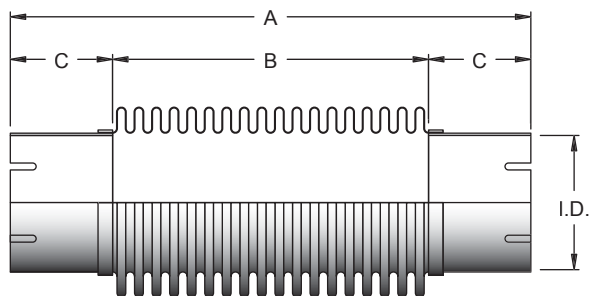
T-321 STAINLESS STEEL BELLOWS & FLEX  
TUBE SIZE SLOTTED CUFF EACH END



TUBE SIZE

## TYPE 9P - SLOTTED CUFF EACH END

T-321 STAINLESS STEEL BELLOWS & FLEX  
PIPE SIZE SLOTTED CUFF EACH END



PIPE SIZE

## TYPE 9T - MULTI-PLY BELLOWS

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	14.00	6.00	4.00	1.54	9M0150-14T	9M0150-14HT
2"	14.00	6.00	4.00	2.04	9M0200-14T	9M0200-14HT
2-1/2"	14.00	6.00	4.00	2.54	9M0250-14T	9M0250-14HT
3"	17.00	9.00	4.00	3.04	9M0300-17T	9M0300-17HT
3-1/2"	17.00	9.00	4.00	3.54	9M0350-17T	9M0350-17HT
4"	17.00	9.00	4.00	4.04	9M0400-17T	9M0400-17HT
5"	17.00	9.00	4.00	5.04	9M0500-17T	9M0500-17HT
6"	17.00	9.00	4.00	6.04	9M0600-17T	9M0600-17HT
8"	17.00	9.00	4.00	8.04	9M0800-17T	9M0800-17HT
10"	17.00	9.00	4.00	10.04	9M1000-17T	9M1000-17HT
12"	17.00	9.00	4.00	12.04	9M1200-17T	9M1200-17HT

## TYPE 9P - MULTI-PLY BELLOWS

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	14.00	6.00	4.00	1.92	9M0150-14P	9M0150-14HP
2"	14.00	6.00	4.00	2.42	9M0200-14P	9M0200-14HP
2-1/2"	14.00	6.00	4.00	2.92	9M0250-14P	9M0250-14HP
3"	17.00	9.00	4.00	3.54	9M0300-17P	9M0300-17HP
3-1/2"	17.00	9.00	4.00	4.04	9M0350-17P	9M0350-17HP
4"	17.00	9.00	4.00	4.54	9M0400-17P	9M0400-17HP
5"	17.00	9.00	4.00	5.62	9M0500-17P	9M0500-17HP
6"	17.00	9.00	4.00	6.67	9M0600-17P	9M0600-17HP
8"	17.00	9.00	4.00	8.67	9M0800-17P	9M0800-17HP
10"	17.00	9.00	4.00	10.79	9M1000-17P	9M1000-17HP
12"	17.00	9.00	4.00	12.79	9M1200-17P	9M1200-17HP

## TYPE 9T - SINGLE-PLY BELLOWS

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	14.00	6.00	4.00	1.54	9S0150-14T	9S0150-14HT
2"	14.00	6.00	4.00	2.04	9S0200-14T	9S0200-14HT
2-1/2"	14.00	6.00	4.00	2.54	9S0250-14T	9S0250-14HT
3"	17.00	9.00	4.00	3.04	9S0300-17T	9S0300-17HT
3-1/2"	17.00	9.00	4.00	3.54	9S0350-17T	9S0350-17HT
4"	17.00	9.00	4.00	4.04	9S0400-17T	9S0400-17HT
5"	17.00	9.00	4.00	5.04	9S0500-17T	9S0500-17HT
6"	17.00	9.00	4.00	6.04	9S0600-17T	9S0600-17HT
8"	17.00	9.00	4.00	8.04	9S0800-17T	9S0800-17HT
10"	17.00	9.00	4.00	10.04	9S1000-17T	9S1000-17HT
12"	17.00	9.00	4.00	12.04	9S1200-17T	9S1200-17HT

## TYPE 9P - SINGLE-PLY BELLOWS

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	14.00	6.00	4.00	1.92	9S0150-14P	9S0150-14HP
2"	14.00	6.00	4.00	2.42	9S0200-14P	9S0200-14HP
2-1/2"	14.00	6.00	4.00	2.92	9S0250-14P	9S0250-14HP
3"	17.00	9.00	4.00	3.54	9S0300-17P	9S0300-17HP
3-1/2"	17.00	9.00	4.00	4.04	9S0350-17P	9S0350-17HP
4"	17.00	9.00	4.00	4.54	9S0400-17P	9S0400-17HP
5"	17.00	9.00	4.00	5.62	9S0500-17P	9S0500-17HP
6"	17.00	9.00	4.00	6.67	9S0600-17P	9S0600-17HP
8"	17.00	9.00	4.00	8.67	9S0800-17P	9S0800-17HP
10"	17.00	9.00	4.00	10.79	9S1000-17P	9S1000-17HP
12"	17.00	9.00	4.00	12.79	9S1200-17P	9S1200-17HP

## TYPE 9T - FLEX HOSE

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	20.00	12.00	4.00	1.54	9F0150-20T	9F0150-20HT
2"	20.00	12.00	4.00	2.04	9F0200-20T	9F0200-20HT
2-1/2"	20.00	12.00	4.00	2.54	9F0250-20T	9F0250-20HT
3"	25.00	17.00	4.00	3.04	9F0300-25T	9F0300-25HT
3-1/2"	25.00	17.00	4.00	3.54	9F0350-25T	9F0350-25HT
4"	25.00	17.00	4.00	4.04	9F0400-25T	9F0400-25HT
5"	25.00	17.00	4.00	5.04	9F0500-25T	9F0500-25HT
6"	25.00	17.00	4.00	6.04	9F0600-25T	9F0600-25HT
8"	25.00	17.00	4.00	8.04	9F0800-25T	9F0800-25HT
10"	25.00	17.00	4.00	10.04	9F1000-25T	9F1000-25HT
12"	25.00	17.00	4.00	12.04	9F1200-25T	9F1200-25HT

## TYPE 9P - FLEX HOSE

SIZE	A	B	C	I.D.	C/S CUFF	S/S CUFF
1-1/2"	20.00	12.00	4.00	1.92	9F0150-20P	9F0150-20HP
2"	20.00	12.00	4.00	2.42	9F0200-20P	9F0200-20HP
2-1/2"	20.00	12.00	4.00	2.92	9F0250-20P	9F0250-20HP
3"	25.00	17.00	4.00	3.54	9F0300-25P	9F0300-25HP
3-1/2"	25.00	17.00	4.00	4.04	9F0350-25P	9F0350-25HP
4"	25.00	17.00	4.00	4.54	9F0400-25P	9F0400-25HP
5"	25.00	17.00	4.00	5.62	9F0500-25P	9F0500-25HP
6"	25.00	17.00	4.00	6.67	9F0600-25P	9F0600-25HP
8"	25.00	17.00	4.00	8.67	9F0800-25P	9F0800-25HP
10"	25.00	17.00	4.00	10.79	9F1000-25P	9F1000-25HP
12"	25.00	17.00	4.00	12.79	9F1200-25P	9F1200-25HP

### OPTIONS:

- Longer / Shorter Lengths
- T-304 Stainless Steel Fittings
- T-321 Stainless Steel Flow Liners
- Inconel 625 Bellows

### NOTES:

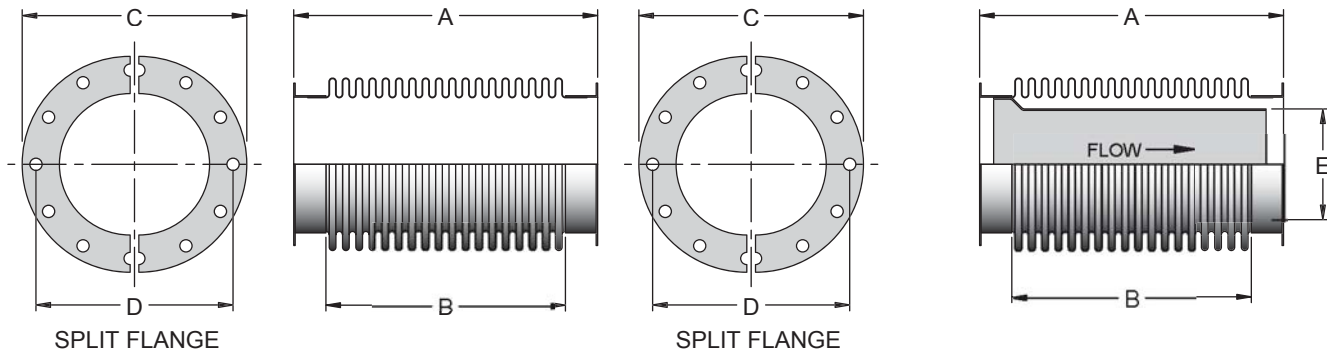
- Available Without Slots On Request
- Stainless Steel Cuffs are T-304 Stainless Steel

See pages 27-29 for bellows and flex hose specifications.



**TYPE 29A - FLOATING X FLOATING (SPLIT FLANGES)    TYPE 29AL - FLOATING X FLOATING (SPLIT FLANGES)**

T-321 STAINLESS STEEL BELLOWS  
 T-321 STAINLESS STEEL VANSTONE STUB END  
 WITH OR WITHOUT 125/150# ANSI CARBON STEEL FLANGES  
 FLANGES ARE RE-USABLE



**TYPE 29A - MULTI-PLY BELLOWS**

I.D. SIZE	A	B	C	D	HOLES	DIA	WITH FLANGES	W/OUT FLANGES
3"	13.00	9.00	7.50	6.00	4	0.75	29M0300-13A	29M0300-13
3-1/2"	13.00	9.00	8.50	7.00	8	0.75	29M0350-13A	29M0350-13
4"	13.00	9.00	9.00	7.50	8	0.75	29M0400-13A	29M0400-13
5"	13.00	9.00	10.00	8.50	8	0.88	29M0500-13A	29M0500-13
6"	13.00	9.00	11.00	9.50	8	0.88	29M0600-13A	29M0600-13
8"	13.00	9.00	13.50	11.75	8	0.88	29M0800-13A	29M0800-13
10"	13.00	9.00	16.00	14.25	12	1.00	29M1000-13A	29M1000-13
12"	13.00	9.00	19.00	17.00	12	1.00	29M1200-13A	29M1200-13
14"	13.00	9.00	21.00	18.75	12	1.13	29M1400-13A	29M1400-13
16"	13.00	9.00	23.50	21.25	16	1.13	29M1600-13A	29M1600-13
18"	13.00	9.00	25.50	22.75	16	1.25	29M1800-13A	29M1800-13
20"	13.00	9.00	27.50	25.00	20	1.25	29M2000-13A	29M2000-13
22"	13.00	9.00	29.50	27.25	20	1.38	29M2200-13A	29M2200-13
24"	13.00	9.00	32.00	29.50	20	1.38	29M2400-13A	29M2400-13

**TYPE 29AL - MULTI-PLY WITH LINER**

I.D. SIZE	A	B	E	WITH FLANGES	W/OUT FLANGES
3"	13.00	9.00	2.88	29M0300-13AL	29M0300-13L
3-1/2"	13.00	9.00	3.38	29M0350-13AL	29M0350-13L
4"	13.00	9.00	3.88	29M0400-13AL	29M0400-13L
5"	13.00	9.00	4.75	29M0500-13AL	29M0500-13L
6"	13.00	9.00	5.75	29M0600-13AL	29M0600-13L
8"	13.00	9.00	7.75	29M0800-13AL	29M0800-13L
10"	13.00	9.00	9.88	29M1000-13AL	29M1000-13L
12"	13.00	9.00	11.88	29M1200-13AL	29M1200-13L
14"	13.00	9.00	13.00	29M1400-13AL	29M1400-13L
16"	13.00	9.00	15.00	29M1600-13AL	29M1600-13L
18"	13.00	9.00	17.00	29M1800-13AL	29M1800-13L
20"	13.00	9.00	19.00	29M2000-13AL	29M2000-13L
22"	13.00	9.00	21.00	29M2200-13AL	29M2200-13L
24"	13.00	9.00	23.00	29M2400-13AL	29M2400-13L

**TYPE 29A - SINGLE-PLY BELLOWS**

I.D. SIZE	A	B	C	D	HOLES	DIA	WITH FLANGES	W/OUT FLANGES
3"	13.00	9.00	7.50	6.00	4	0.75	29S0300-13A	29S0300-13
3-1/2"	13.00	9.00	8.50	7.00	8	0.75	29S0350-13A	29S0350-13
4"	13.00	9.00	9.00	7.50	8	0.75	29S0400-13A	29S0400-13
5"	13.00	9.00	10.00	8.50	8	0.88	29S0500-13A	29S0500-13
6"	13.00	9.00	11.00	9.50	8	0.88	29S0600-13A	29S0600-13
8"	13.00	9.00	13.50	11.75	8	0.88	29S0800-13A	29S0800-13
10"	13.00	9.00	16.00	14.25	12	1.00	29S1000-13A	29S1000-13
12"	13.00	9.00	19.00	17.00	12	1.00	29S1200-13A	29S1200-13
14"	13.00	9.00	21.00	18.75	12	1.13	29S1400-13A	29S1400-13
16"	13.00	9.00	23.50	21.25	16	1.13	29S1600-13A	29S1600-13
18"	13.00	9.00	25.50	22.75	16	1.25	29S1800-13A	29S1800-13
20"	13.00	9.00	27.50	25.00	20	1.25	29S2000-13A	29S2000-13
22"	13.00	9.00	29.50	27.25	20	1.38	29S2200-13A	29S2200-13
24"	13.00	9.00	32.00	29.50	20	1.38	29S2400-13A	29S2400-13

**TYPE 29AL - SINGLE-PLY WITH LINER**

I.D. SIZE	A	B	E	WITH FLANGES	W/OUT FLANGES
3"	13.00	9.00	2.88	29S0300-13AL	29S0300-13L
3-1/2"	13.00	9.00	3.38	29S0350-13AL	29S0350-13L
4"	13.00	9.00	3.88	29S0400-13AL	29S0400-13L
5"	13.00	9.00	4.75	29S0500-13AL	29S0500-13L
6"	13.00	9.00	5.75	29S0600-13AL	29S0600-13L
8"	13.00	9.00	7.75	29S0800-13AL	29S0800-13L
10"	13.00	9.00	9.88	29S1000-13AL	29S1000-13L
12"	13.00	9.00	11.88	29S1200-13AL	29S1200-13L
14"	13.00	9.00	13.00	29S1400-13AL	29S1400-13L
16"	13.00	9.00	15.00	29S1600-13AL	29S1600-13L
18"	13.00	9.00	17.00	29S1800-13AL	29S1800-13L
20"	13.00	9.00	19.00	29S2000-13AL	29S2000-13L
22"	13.00	9.00	21.00	29S2200-13AL	29S2200-13L
24"	13.00	9.00	23.00	29S2400-13AL	29S2400-13L

See pages 27-29 for bellows and flex hose specifications.

**OPTIONS:**

- Longer / Shorter Lengths
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- Increasing / Reducing Flanges

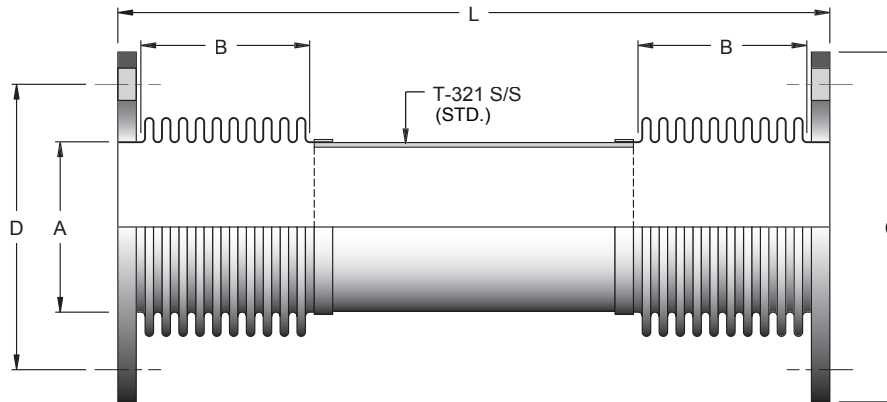
**NOTES:**

- T-321 Stainless Steel Vanstone Stub Ends (Standard).
- Standard Flow Liner Diameter "E" Limits Lateral Offset to 3/8" For Increased Offset "E" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.
- For Cat Flanges Each End, Change "A" to "B"
- For Cummins Flanges Each End, Change "A" to "UU"
- For Detroit Flanges Each End, Change "A" to "DD"

# UNIVERSAL ISOLATORS

## TYPE 34 - T-321 S/S UNIVERSAL BELLOWS, A 36 C/S 125/150# ANSI FLANGE, T-321 S/S CENTER PIPE

FOR LOW PRESSURE EXHAUST SERVICE DESIGNED TO ISOLATE ENGINE VIBRATION AND ABSORB THERMAL EXPANSION OF THE PIPING. THIS IS AN EXTREMELY DURABLE CONNECTOR THAT IMPOSES VERY LITTLE FORCE ON THE MANIFOLD OR TURBO CHARGER. UNIVERSAL EXPANSION JOINTS CAN BE INSTALLED VERTICALLY FROM THE ENGINE TO ABSORB VIBRATION AND PIPING GROWTH IN BOTH THE VERTICAL AND HORIZONTAL PLANE. WHEN USED IN PIPING SYSTEMS, THERMAL EXPANSION CAN BE ABSORBED IN MULTIPLE PLANES WITH LOW SPRING FORCES PLACED ON THE ANCHORS.



### TYPE 34 - MULTI-PLY BELLOWS ( 30,000+ CYCLES )

SIZE						2" LATERAL + 1" AXIAL COMPR.				4" LATERAL + 1" AXIAL COMPR.				MAX. PRESS. @ 1000 DEG F.
A	B	C	D	HOLES	DIA.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	
3"	6.00	7.50	6.00	4	0.75	18.00	95	5	34M0300-2-1	24.00	95	2	34M0300-4-1	5 PSIG
3.50"	6.00	8.50	7.00	8	0.75	18.00	109	7	34M0350-2-1	24.00	109	3	34M0350-4-1	5 PSIG
4"	6.00	9.00	7.50	8	0.75	18.00	123	10	34M0400-2-1	24.00	123	4	34M0400-4-1	5 PSIG
5"	6.00	10.00	8.50	8	0.88	18.00	80	10	34M0500-2-1	24.00	80	4	34M0500-4-1	5 PSIG
6"	6.00	11.00	9.50	8	0.88	18.00	93	16	34M0600-2-1	24.00	93	7	34M0600-4-1	5 PSIG
8"	6.00	13.50	11.75	8	0.88	18.00	121	35	34M0800-2-1	24.00	121	15	34M0800-4-1	5 PSIG
10"	6.00	16.00	14.25	12	1.00	20.00	145	46	34M1000-2-1	28.00	145	18	34M1000-4-1	5 PSIG
12"	6.00	19.00	17.00	12	1.00	20.00	175	78	34M1200-2-1	28.00	175	31	34M1200-4-1	5 PSIG
14"	6.00	21.00	18.75	12	1.13	20.00	90	54	34M1400-2-1	28.00	90	22	34M1400-4-1	5 PSIG
16"	6.00	23.50	21.25	16	1.13	20.00	103	80	34M1600-2-1	28.00	103	32	34M1600-4-1	5 PSIG
18"	6.00	25.00	22.75	16	1.25	22.00	76	60	34M1800-2-1	30.00	76	26	34M1800-4-1	5 PSIG
20"	6.00	27.50	25.00	20	1.25	24.00	85	64	34M2000-2-1	32.00	85	30	34M2000-4-1	5 PSIG
22"	6.00	29.50	27.25	20	1.38	26.00	92	67	34M2200-2-1	34.00	92	34	34M2200-4-1	5 PSIG
24"	6.00	32.00	29.50	20	1.38	26.00	99	85	34M2400-2-1	36.00	99	37	34M2400-4-1	5 PSIG

### TYPE 34 - SINGLE-PLY BELLOWS ( 10,000+ CYCLES )

SIZE						2" LATERAL + 1" AXIAL COMPR.				4" LATERAL + 1" AXIAL COMPR.				MAX. PRESS. @ 1000 DEG F.
A	B	C	D	HOLES	DIA.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	
3"	6.00	7.50	6.00	4	0.75	18.00	105	6	34S0300-2-1	24.00	105	3	34S0300-4-1	5 PSIG
3.50"	6.00	8.50	7.00	8	0.75	18.00	121	8	34S0350-2-1	24.00	121	4	34S0350-4-1	5 PSIG
4"	6.00	9.00	7.50	8	0.75	18.00	137	11	34S0400-2-1	24.00	137	5	34S0400-4-1	5 PSIG
5"	6.00	10.00	8.50	8	0.88	18.00	168	20	34S0500-2-1	24.00	168	10	34S0500-4-1	5 PSIG
6"	6.00	11.00	9.50	8	0.88	20.00	197	24	34S0600-2-1	26.00	197	12	34S0600-4-1	5 PSIG
8"	6.00	13.50	11.75	8	0.88	20.00	263	55	34S0800-2-1	30.00	263	19	34S0800-4-1	5 PSIG
10"	6.00	16.00	14.25	12	1.00	20.00	275	90	34S1000-2-1	30.00	275	31	34S1000-4-1	5 PSIG
12"	6.00	19.00	17.00	12	1.00	22.00	329	115	34S1200-2-1	32.00	329	43	34S1200-4-1	5 PSIG
14"	6.00	21.00	18.75	12	1.13	22.00	255	125	34S1400-2-1	32.00	255	47	34S1400-4-1	5 PSIG
16"	6.00	23.50	21.25	16	1.13	22.00	289	182	34S1600-2-1	32.00	289	68	34S1600-4-1	5 PSIG
18"	6.00	25.00	22.75	16	1.25	24.00	324	200	34S1800-2-1	36.00	324	71	34S1800-4-1	5 PSIG
20"	6.00	27.50	25.00	20	1.25	24.00	356	267	34S2000-2-1	38.00	356	83	34S2000-4-1	5 PSIG
22"	6.00	29.50	27.25	20	1.38	26.00	392	284	34S2200-2-1	40.00	392	96	34S2200-4-1	5 PSIG
24"	6.00	32.00	29.50	20	1.38	28.00	424	298	34S2400-2-1	42.00	424	109	34S2400-4-1	5 PSIG

#### OPTIONS:

- Longer / Shorter Lengths
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- Increasing / Reducing Flanges

#### NOTES:

- If Flow Liners Are Required, Use Model 35LX to Achieve Full Rated Movement.
- Consult DME Engineering Department For Other Possible Movement Combinations.

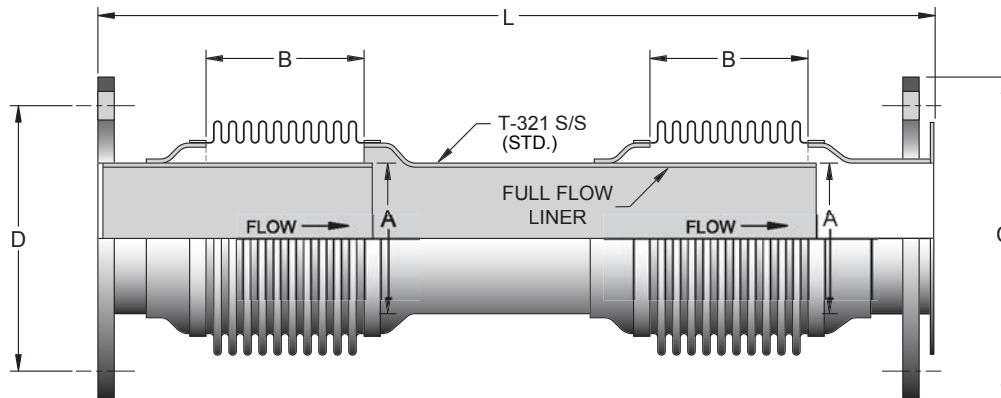




# FULL FLOW UNIVERSAL ISOLATORS

## TYPE 35LX - T-321 S/S BELLOWS, A 36 C/S 125/150# ANSI FLANGES FIXED X FLOATING, T-321 S/S FLOW LINER

AN OVERSIZED BELLOWS ALLOWS FOR A LARGER DIAMETER FLOW LINER, THUS ELIMINATING THE RESTRICTION OF THE GAS FLOW. IF THE FLOW VELOCITY IS EQUAL TO OR GREATER THAN 25 FT/SEC. IN 8" AND OVER OR 4 FT/SEC/INCH OF DIAMETER IN 6" AND UNDER, A FLOW LINER MUST BE USED TO PREVENT FLOW INDUCED VIBRATION.



### TYPE 35LX - MULTI-PLY BELLOWS (30,000+ CYCLES)

SIZE						2" LATERAL + 1" AXIAL COMPR.				4" LATERAL + 1" AXIAL COMPR.				MAX. PRESS. @ 1000 DEG F.
SIZE	A	B	C	D	HOLE DIA.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	
3"	3.00	4.00	7.50	6.00	0.75	30.00	73	3	35M0300-2-1LX	36.00	73	3	35M0300-4-1LX	5 PSIG
3.50"	3.50	4.50	8.50	7.00	0.75	30.00	62	4	35M0350-2-1LX	36.00	62	4	35M0350-4-1LX	5 PSIG
4"	4.00	4.50	9.00	7.50	0.75	30.00	82	6	35M0400-2-1LX	36.00	82	6	35M0400-4-1LX	5 PSIG
5"	5.00	5.00	10.00	8.50	0.88	30.00	86	8	35M0500-2-1LX	38.00	86	8	35M0500-4-1LX	5 PSIG
6"	6.00	5.00	11.00	9.50	0.88	32.00	108	13	35M0600-2-1LX	42.00	108	13	35M0600-4-1LX	5 PSIG
8"	8.00	5.00	13.50	11.75	0.88	32.00	77	13	35M0800-2-1LX	42.00	77	13	35M0800-4-1LX	5 PSIG
10"	10.00	5.00	16.00	14.25	1.00	32.00	90	21	35M1000-2-1LX	42.00	90	21	35M1000-4-1LX	5 PSIG
12"	12.00	5.75	19.00	17.00	1.00	32.00	91	30	35M1200-2-1LX	42.00	91	30	35M1200-4-1LX	5 PSIG
14"	14.00	5.25	21.00	18.75	1.13	32.00	80	33	35M1400-2-1LX	42.00	80	33	35M1400-4-1LX	5 PSIG
16"	16.00	5.25	23.50	21.25	1.13	32.00	88	45	35M1600-2-1LX	42.00	88	45	35M1600-4-1LX	5 PSIG
18"	18.00	5.25	25.00	22.75	1.25	34.00	98	50	35M1800-2-1LX	44.00	98	50	35M1800-4-1LX	5 PSIG
20"	20.00	6.00	27.50	25.00	1.25	34.00	92	61	35M2000-2-1LX	44.00	92	61	35M2000-4-1LX	5 PSIG
22"	22.00	6.00	29.50	27.25	1.38	34.00	99	77	35M2200-2-1LX	44.00	99	77	35M2200-4-1LX	5 PSIG
24"	24.00	6.00	32.00	29.50	1.38	36.00	106	79	35M2400-2-1LX	46.00	106	79	35M2400-4-1LX	5 PSIG

### TYPE 35LX - SINGLE-PLY BELLOWS (10,000+ CYCLES)

SIZE						2" LATERAL + 1" AXIAL COMPR.				4" LATERAL + 1" AXIAL COMPR.				MAX. PRESS. @ 1000 DEG F.
SIZE	A	B	C	D	HOLE DIA.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	L	AXIAL SPRING RATE # / INCH	LAT. SPRING RATE # / INCH	PART NO.	
3"	3.00	4.00	7.50	6.00	0.75	30.00	138	6	35S0300-2-1LX	36.00	138	3	35S0300-4-1LX	5 PSIG
3.50"	3.50	4.50	8.50	7.00	0.75	30.00	218	12	35S0350-2-1LX	36.00	218	7	35S0350-4-1LX	5 PSIG
4"	4.00	4.50	9.00	7.50	0.75	30.00	339	22	35S0400-2-1LX	36.00	339	13	35S0400-4-1LX	5 PSIG
5"	5.00	5.00	10.00	8.50	0.88	30.00	363	34	35S0500-2-1LX	38.00	363	16	35S0500-4-1LX	5 PSIG
6"	6.00	5.00	11.00	9.50	0.88	32.00	472	57	35S0600-2-1LX	42.00	472	25	35S0600-4-1LX	5 PSIG
8"	8.00	5.00	13.50	11.75	0.88	32.00	310	52	35S0800-2-1LX	42.00	310	23	35S0800-4-1LX	5 PSIG
10"	10.00	5.00	16.00	14.25	1.00	32.00	371	86	35S1000-2-1LX	42.00	371	37	35S1000-4-1LX	5 PSIG
12"	12.00	5.75	19.00	17.00	1.00	32.00	381	125	35S1200-2-1LX	42.00	381	53	35S1200-4-1LX	5 PSIG
14"	14.00	5.25	21.00	18.75	1.13	32.00	331	136	35S1400-2-1LX	42.00	331	59	35S1400-4-1LX	5 PSIG
16"	16.00	5.25	23.50	21.25	1.13	32.00	372	190	35S1600-2-1LX	42.00	372	82	35S1600-4-1LX	5 PSIG
18"	18.00	5.25	25.00	22.75	1.25	34.00	408	209	35S1800-2-1LX	44.00	408	96	35S1800-4-1LX	5 PSIG
20"	20.00	6.00	27.50	25.00	1.25	34.00	393	258	35S2000-2-1LX	44.00	393	116	35S2000-4-1LX	5 PSIG
22"	22.00	6.00	29.50	27.25	1.38	34.00	425	328	35S2200-2-1LX	44.00	425	148	35S2200-4-1LX	5 PSIG
24"	24.00	6.00	32.00	29.50	1.38	36.00	462	346	35S2400-2-1LX	46.00	462	165	35S2400-4-1LX	5 PSIG

#### OPTIONS:

- Longer / Shorter Lengths
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows
- Increasing / Reducing Flanges

#### NOTES:

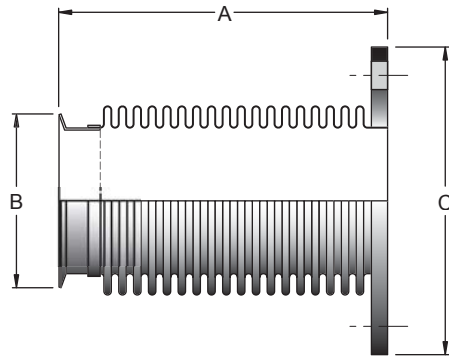
- Add "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange, and "C" for Cat Inlet Flange to the End of the Part Number.
- Axial and Lateral Movements are Concurrent.



## WAUKESHA FACTORY REPLACEMENT BELLOWS

### TYPE 41W - FLANGE X 20 DEG LIP FLANGE

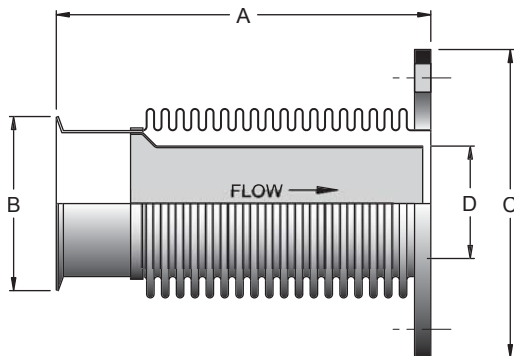
T-321 STAINLESS STEEL BELLOWS  
 T-321 S/S WAUKESHA LIP FLANGE  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



SIZE	A	B	C	MULTI-PLY	SINGLE-PLY
5"	8.00	6.13	10.00	41M0500-8W	41S0500-8W
6"	8.00	6.75	11.00	41M0600-8W	41S0600-8W
8"	8.00	9.00	13.50	41M0800-8W	41S0800-8W
12"	8.00	13.00	19.00	41M1200-8W	41S1200-8W
14"	8.00	15.13	21.00	41M1400-8W	41S1400-8W

### TYPE 41LW - FLANGE X 20 DEG LIP FLANGE

T-321 STAINLESS STEEL BELLOWS  
 T-321 S/S WAUKESHA LIP FLANGE  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 T-321 S/S FLOW LINER



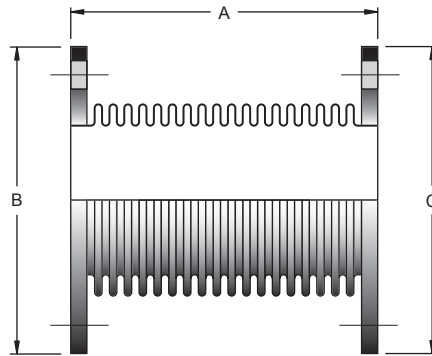
SIZE	A	B	C	D	MULTI-PLY	SINGLE-PLY
5"	8.00	6.13	10.00	4.38	41M0500-8LW	41S0500-8LW
6"	8.00	6.75	11.00	5.38	41M0600-8LW	41S0600-8LW
8"	8.00	9.00	13.50	7.38	41M0800-8LW	41S0800-8LW
12"	8.00	13.00	19.00	11.38	41M1200-8LW	41S1200-8LW
14"	8.00	15.13	21.00	13.38	41M1400-8LW	41S1400-8LW

#### OPTIONS:

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

### TYPE 42 - FIXED X FIXED (ANSI)

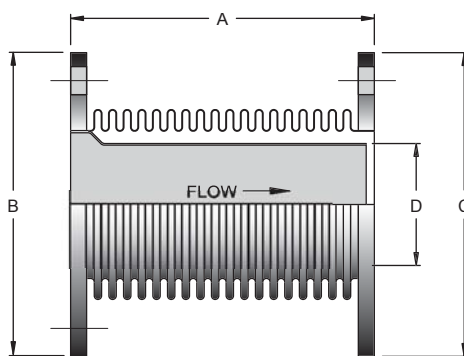
T-321 STAINLESS STEEL BELLOWS  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL



SIZE	A	B	C	MULTI-PLY	SINGLE-PLY
5"	8.00	10.00	10.00	42M0500-8	42S0500-8
6"	8.00	11.00	11.00	42M0600-8	42S0600-8
8"	8.00	13.50	13.50	42M0800-8	42S0800-8
10"	8.00	16.00	16.00	42M1000-8	42S1000-8
12"	8.00	19.00	19.00	42M1200-8	42S1200-8
14"	8.00	21.00	21.00	42M1400-8	42S1400-8

### TYPE 42L - FIXED X FIXED (ANSI)

T-321 STAINLESS STEEL BELLOWS  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 T-321 S/S FLOW LINER



SIZE	A	B	C	D	MULTI-PLY	SINGLE-PLY
5"	8.00	10.00	10.00	4.38	42M0500-8L	42S0500-8L
6"	8.00	11.00	11.00	5.38	42M0600-8L	42S0600-8L
8"	8.00	13.50	13.50	7.38	42M0800-8L	42S0800-8L
10"	8.00	16.50	16.00	9.38	42M1000-8L	42S1000-8L
12"	8.00	19.00	19.00	11.38	42M1200-8L	42S1200-8L
14"	8.00	21.00	21.00	13.38	42M1400-8L	42S1400-8L

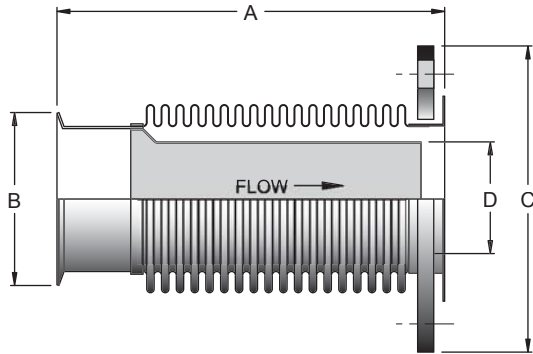
#### NOTES:

- For Optional "Venturi", Consult the Factory.
- Standard Flow Liner Diameter "D" Limits Lateral Offset to 3/8" For Increased Offset "D" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

**WAUKESHA FACTORY REPLACEMENT BELLOWS**

**TYPE 41LWX - FLOATING FLANGE X LIP FLANGE**

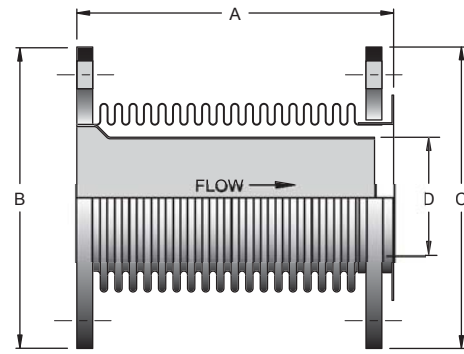
T-321 STAINLESS STEEL BELLOWS  
 T-321 S/S WAUKESHA LIP FLANGE  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 T-321 S/S FLOW LINER



SIZE	A	B	C	D	MULTI-PLY	SINGLE-PLY
5"	8.00	6.13	10.00	4.38	41M0500-8LWX	41S0500-8LWX
6"	8.00	6.75	11.00	5.38	41M0600-8LWX	41S0600-8LWX
8"	8.00	9.00	13.50	7.38	41M0800-8LWX	41S0800-8LWX
12"	8.00	13.00	19.00	11.38	41M1200-8LWX	41S1200-8LWX
14"	8.00	15.13	21.00	13.38	41M1400-8LWX	41S1400-8LWX

**TYPE 42LX - FIXED X FLOATING (ANSI)**

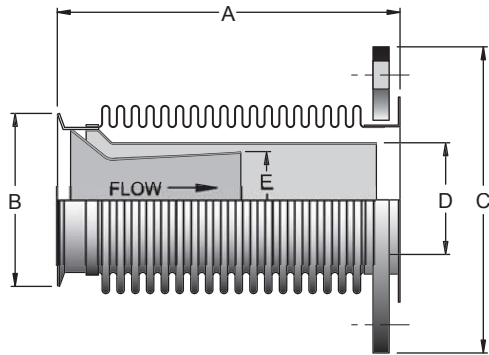
T-321 STAINLESS STEEL BELLOWS  
 125-150# ANSI FLANGE INLET, A-36 STEEL  
 125-150# ANSI FLANGE OUTLET, A-36 STEEL  
 T-321 S/S FLOW LINER



SIZE	A	B	C	D	MULTI-PLY	SINGLE-PLY
5"	8.00	10.00	10.00	4.38	42M0500-8LX	42S0500-8LX
6"	8.00	11.00	11.00	5.38	42M0600-8LX	42S0600-8LX
8"	8.00	13.50	13.50	7.38	42M0800-8LX	42S0800-8LX
10"	8.00	16.50	16.00	9.38	42M1000-8LX	42S1000-8LX
12"	8.00	19.00	19.00	11.38	42M1200-8LX	42S1200-8LX
14"	8.00	21.00	21.00	13.38	42M1400-8LX	42S1400-8LX

**TYPE 43LWX - FIXED FLANGE X LIP FLANGE**

T-321 STAINLESS STEEL BELLOWS  
 T-321 S/S WAUKESHA LIP FLANGE  
 125-150# ANSI FLOATING FLANGE OUTLET, A-36 STEEL  
 T-321 S/S FLOW LINER,  
 T-321 S/S VENTURI



SIZE	A	B	C	D	E	MULTI-PLY	SINGLE-PLY
6"	7.62	6.75	11.00	5.38	4.50	43M0600-8LWX	43S0600-8LWX



*"Type 43LWX Bellows with Venturi"*

**OPTIONS:**

- Longer / Shorter Lengths
- Increasing / Reducing Flanges
- Special Drilled / Metric Flanges
- T-304 Stainless Steel Flanges
- Inconel 625 Bellows

**NOTES:**

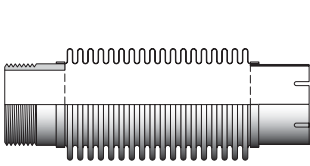
- T-321 Stainless Steel Vanstone (Standard).
- For Optional "Venturi", Consult the Factory.
- Standard Flow Liner Diameter "D" Limits Lateral Offset to 3/8" For Increased Offset "D" Must Be Reduced.
- Internal Flow Liners are Required if Flow Conditions are Equal or Greater Than the Following:
  - 6" and Under (Gas / Steam) - 4ft/sec/inch of Diameter.
  - 8" and Over (Gas / Steam) - 25ft/sec.

**“MORE POSSIBLE CONFIGURATIONS”**

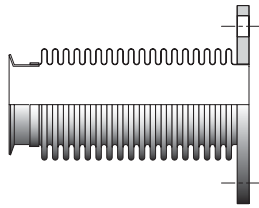
With over 30 years of experience, the design team at DME Incorporated will help you select the right product for your application. Shown below are more assembly configurations with the corresponding type number.

These examples along with the other connectors in this catalog will give you the basis to tell us exactly what you want for your particular system.

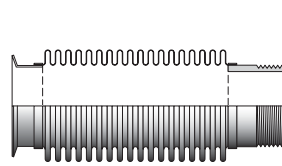
DME Incorporated maintains an extensive inventory of exhaust components and sub-assemblies, which allows us to manufacture custom assemblies quickly and efficiently. In turn, our customers save time and money in the field by not trying to make incompatible products fit their application requirements.



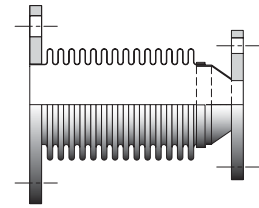
**TYPE 6: MALE NPT THREAD X SLOTTED CUFF**



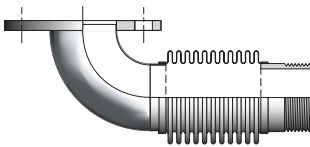
**TYPE 7: 20° LIP FLANGE X FLANGE**



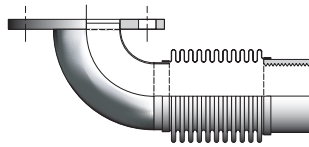
**TYPE 8: 20° LIP FLANGE X MALE NPT THREAD**



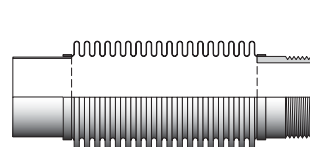
**TYPE 14: FLANGE X CONE REDUCING FLANGE**



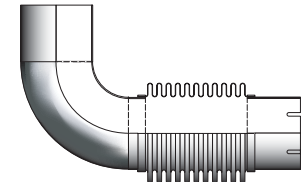
**TYPE 15: FLANGED 90° ELBOW X MALE NPT THREAD**



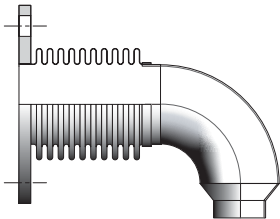
**TYPE 16: FLANGED 90° ELBOW X FEMALE NPT COUPLING**



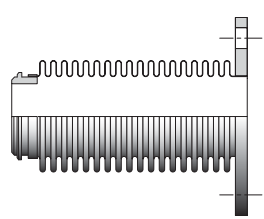
**TYPE 18: O.D. TUBE X MALE NPT THREAD**



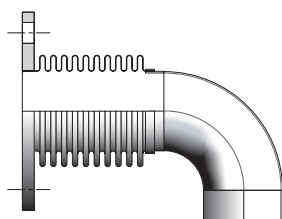
**TYPE 19: O.D. TUBE 90° ELBOW X SLOTTED CUFF**



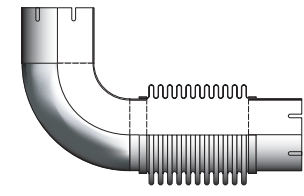
**TYPE 20: REDUCING O.D. TUBE 90° ELBOW X FLANGE**



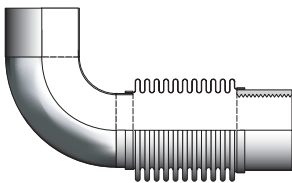
**TYPE 21: TURBO FLANGE X FLANGE**



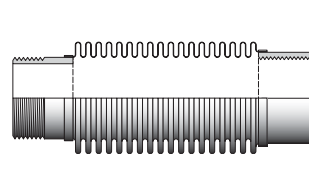
**TYPE 22: 20° LIP FLANGE 90° ELBOW X FLANGE**



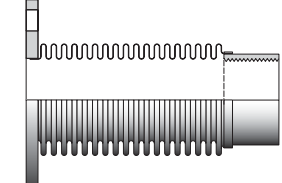
**TYPE 23: SLOTTED CUFF 90° ELBOW X SLOTTED CUFF**



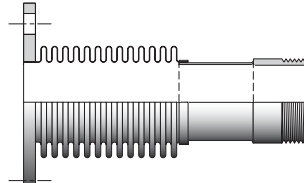
**TYPE 24: O.D. TUBE 90° ELBOW X FEMALE NPT COUPLING**



**TYPE 26: MALE NPT THREAD X FEMALE NPT COUPLING**

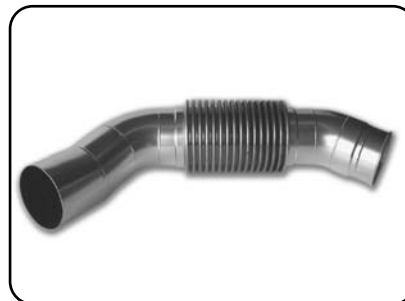


**TYPE 27: FEMALE NPT COUPLING X FLANGE**

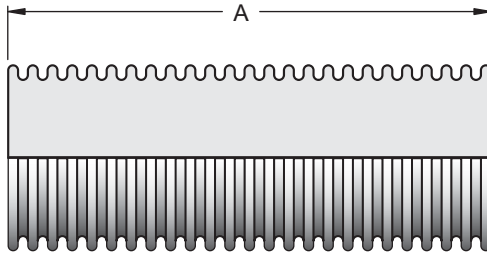


**TYPE 29: FLANGE X SPACER X MALE NPT THREAD**

“DME SPECIALIZES IN CUSTOM FABRICATION”



**CORRUGATED EXHAUST FLEX HOSE**



**A 240 T-321 STAINLESS STEEL**

Flex hose offers an economical solution for minor vibration isolation between the engine and piping. This product should only be used for a minor amount of thermal growth or piping mis-alignment. The life expectancy of flex hose is un-predictable and should only be used for non-critical applications.

FLEX I.D. (TRUE)	CONV. LENGTH "A"	MAX. PSIG @ 900°F	MAX. FLEX TEMP.	AXIAL COMP. ONLY	AXIAL SPRING RATE ( lbs/inch )	ADDITIONAL MOVEMENT PER INCH ( AXIAL )	LATERAL OFFSET ONLY	LATERAL SPRING RATE ( lbs/inch )	ADDITIONAL MOVEMENT PER INCH ( LATERAL )	CYCLE LIFE
1.00	12.00	20	1200° F	.140	320	.011	1.32	5.5	.110	N/A
1.25	12.00	20	1200° F	.140	319	.011	1.29	7.7	.107	N/A
1.50	12.00	19	1200° F	.140	298	.011	1.25	9.8	.104	N/A
2.00	12.00	18	1200° F	.140	343	.011	.960	18.4	.080	N/A
2.50	12.00	22	1200° F	.210	345	.017	.820	29	.068	N/A
3.00	17.00	10	1200° F	.289	191	.017	1.04	12	.061	N/A
3.50	17.00	10	1200° F	.289	217	.017	.918	18	.054	N/A
4.00	17.00	10	1200° F	.289	225	.017	.850	23	.050	N/A
5.00	17.00	15	1200° F	.289	342	.017	.663	54	.039	N/A
6.00	17.00	19	1200° F	.289	441	.017	.595	95	.035	N/A
7.50	17.00	14	1200° F	.374	311	.022	.553	104	.033	N/A
8.00	17.00	14	1200° F	.374	323	.022	.510	123	.030	N/A
8.63	17.00	15	1200° F	.374	341	.022	.474	147	.028	N/A
9.50	17.00	16	1200° F	.374	371	.022	.416	193	.024	N/A
10.00	17.00	14	1200° F	.374	310	.022	.357	192	.021	N/A
10.75	17.00	14	1200° F	.374	328	.022	.332	232	.020	N/A
12.00	17.00	15	1200° F	.374	359	.022	.340	311	.020	N/A
12.75	17.00	15	1200° F	.374	380	.022	.321	369	.019	N/A
14.00	17.00	17	1200° F	.374	397	.022	.306	415	.018	N/A
16.00	17.00	18	1200° F	.374	435	.022	.272	584	.016	N/A
18.00	17.00	18	1200° F	.374	483	.022	.255	809	.015	N/A

**NOTES:**

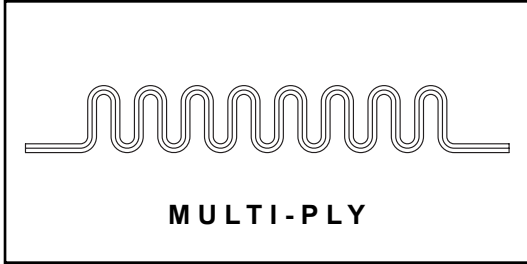
- 1" - 6" Sizes are Stocked in Approximately 20' Lengths.
- 7-1/2" and Larger Sizes are Stocked in 12", 18" and 24" Lengths.
- Larger and Metric Sizes Available on Request.
- Inconel 625, T-316L, Hastelloy and Other Alloys Available on Request.

"DME Maintains a Large Inventory of Flex Hose"





## A240 T-321 STAINLESS STEEL BELLOWS



Multi-ply bellows construction effectively dampens vibration and noise transmission. Large amounts of lateral and axial motions are possible with the lowest spring forces and the maximum fatigue cycle life available.

For critical applications, multi-ply bellows are the best choice. DME Incorporated designs bellows with up to six (6) plies for the ultimate in performance.

DME has the experience and ability to design a bellows to meet your exact requirements.

BELLOWS I.D.	CONV. LENGTH	MAXIMUM * PSIG @ 900° F	MAXIMUM BELLOWS TEMP.	AXIAL COMPR. ONLY	MINIMUM CYCLE LIFE (THEOR)	AXIAL SPRING RATE # / INCH	LATERAL OFFSET ONLY	MINIMUM CYCLE LIFE (THEOR)	LATERAL SPRING RATE # / INCH
1.50	6.00	35	1200°F	0.75	20,000	147	0.75	20,000	19
2.00	6.00	20	1200°F	1.25	20,000	83	1.00	20,000	20
2.38	6.00	20	1200°F	1.25	20,000	97	0.88	20,000	32
2.50	6.00	20	1200°F	1.25	20,000	101	0.88	20,000	36
2.88	6.00	25	1200°F	1.25	20,000	117	0.75	20,000	53
3.00	9.00	5	1200°F	3.00	15,000	44	2.00	20,000	10
3.50	9.00	7	1200°F	3.00	15,000	50	2.00	20,000	15
4.00	9.00	5	1200°F	3.00	15,000	38	2.00	20,000	15
4.50	9.00	5	1200°F	3.00	15,000	43	2.00	20,000	20
5.00	9.00	9	1200°F	3.00	20,000	65	1.50	20,000	40
5.56	9.00	10	1200°F	3.00	20,000	71	1.50	20,000	53
6.00	9.00	10	1200°F	3.00	20,000	82	1.50	20,000	70
6.63	9.00	12	1200°F	3.00	20,000	90	1.00	20,000	92
7.50	9.00	12	1200°F	3.00	20,000	90	1.00	20,000	115
8.00	9.00	15	1200°F	3.00	20,000	95	1.00	20,000	137
8.63	9.00	15	1200°F	3.00	20,000	103	1.00	20,000	171
9.50	9.00	15	1200°F	3.00	20,000	112	0.88	20,000	222
10.00	9.00	7	1200°F	3.00	20,000	53	1.00	20,000	118
10.75	9.00	7	1200°F	3.00	20,000	55	1.00	20,000	141
12.00	9.00	9	1200°F	3.00	20,000	59	1.00	20,000	186
12.75	9.00	9	1200°F	3.00	20,000	62	1.00	20,000	218
14.00	9.00	5	1200°F	4.00	20,000	50	0.75	20,000	207
16.00	9.00	7	1200°F	4.00	20,000	56	0.63	20,000	297
18.00	9.00	7	1200°F	4.00	20,000	60	0.63	20,000	403
20.00	9.00	10	1200°F	4.00	20,000	65	0.50	20,000	534
22.00	9.00	10	1200°F	4.00	20,000	71	0.50	20,000	690
24.00	9.00	10	1200°F	4.00	20,000	78	0.50	20,000	899



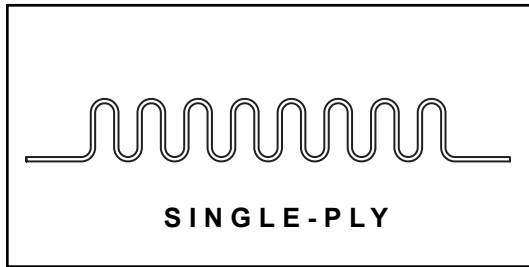
“Each Bellows Is Individually Hand Crafted To Meet Exact Specifications”

**NOTE:**

- Maximum PSIG and temperature ratings are for the bellows only. The rating for the assembly will be based on the fitting style and type of materials selected.
- Longer and shorter bellows can be furnished per customer's request.
- Inconel 625, T-316 Stainless Steel, Hastelloy C276, T-304 Stainless Steel, Alloy X, Monel 400 bellows are available on request.
- Movements are non-concurrent
- Bellows can be extended up to 50% of the axial compression rating.
- Larger sizes available.
- \* Shorter bellows will have greater pressure capabilities, longer bellows are capable of less pressure. Consult DME with your requirements.
- \* For temperatures over 1200°F, Inconel 625 or Hastelloy X Bellows should be used.

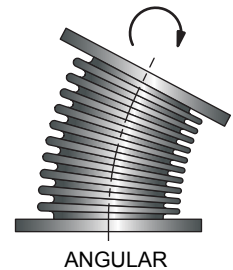
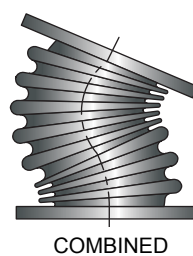
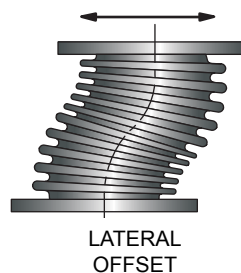
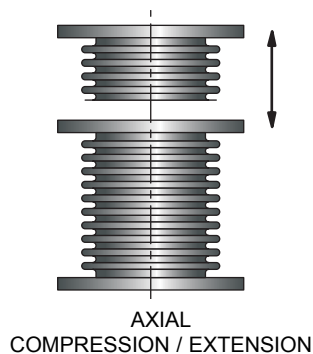
DME INCORPORATED

## A240 T-321 STAINLESS STEEL BELLOWS



Single-ply bellows construction is used for moderate amounts of lateral and axial motions. Spring forces are higher than multi-ply and fatigue cycle life is better than flex hose. Single-ply bellows are commonly used to absorb axial compression and lateral offset in the piping. When used to absorb thermal growth, the bellows must be placed in a piping system that is properly anchored and guided.

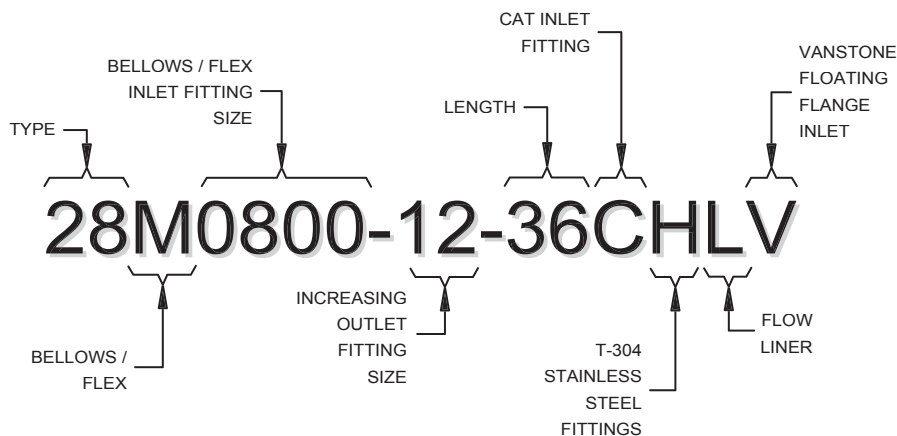
BELLOWS I.D.	CONV. LENGTH	MAXIMUM * PSIG @ 900° F	MAXIMUM BELLOWS TEMP.	AXIAL COMPR. ONLY	MINIMUM CYCLE LIFE (THEOR)	AXIAL SPRING RATE # / INCH	LATERAL OFFSET ONLY	MINIMUM CYCLE LIFE (THEOR)	LATERAL SPRING RATE # / INCH
1.50	6.00	20	1200°F	0.75	10,800	105	0.75	11,000	13
2.00	6.00	10	1200°F	1.25	13,900	67	1.00	15,000	15
2.38	6.00	15	1200°F	1.25	12,700	79	0.88	15,000	25
2.50	6.00	15	1200°F	1.25	12,600	74	0.88	11,800	26
2.88	6.00	20	1200°F	1.25	11,600	86	0.75	12,700	39
3.00	9.00	8	1200°F	2.00	11,800	78	1.75	11,700	17
3.50	9.00	10	1200°F	2.00	10,600	89	1.25	15,000	26
4.00	9.00	10	1200°F	2.50	10,200	70	1.25	15,000	26
4.50	9.00	10	1200°F	2.25	15,000	79	1.25	15,000	36
5.00	9.00	20	1200°F	2.00	15,000	145	1.00	15,000	92
5.56	9.00	20	1200°F	2.00	15,000	160	1.00	10,700	123
6.00	9.00	20	1200°F	2.00	14,900	173	0.88	14,500	153
6.63	9.00	25	1200°F	2.00	14,000	191	0.75	15,000	201
7.50	9.00	30	1200°F	2.00	13,000	212	0.75	10,000	279
8.00	9.00	30	1200°F	2.00	12,000	227	0.63	18,000	339
8.63	9.00	35	1200°F	2.00	12,000	242	0.63	12,000	415
9.50	9.00	35	1200°F	2.00	12,000	269	0.50	15,000	550
10.00	9.00	30	1200°F	2.50	15,000	224	0.75	11,000	500
10.75	9.00	30	1200°F	2.50	15,000	237	0.63	15,000	605
12.00	9.00	30	1200°F	2.50	12,000	264	0.50	15,000	824
12.75	9.00	30	1200°F	2.75	10,000	282	0.50	15,000	986
14.00	9.00	25	1200°F	3.00	15,000	213	0.63	15,000	886
16.00	9.00	30	1200°F	3.00	15,000	242	0.50	15,000	1,288
18.00	9.00	35	1200°F	3.00	15,000	247	0.50	13,000	1,641
20.00	9.00	40	1200°F	3.00	15,000	272	0.38	15,000	2,194
22.00	9.00	40	1200°F	3.00	15,000	299	0.38	11,000	2,901
24.00	9.00	45	1200°F	3.00	15,000	323	0.38	13,000	3,699



**NOTES:**

- Maximum PSIG and temperature ratings are for the bellows only. The rating for the assembly will be based on the fitting style and type of materials selected.
- Movements are non-concurrent.
- Longer and shorter bellows can be furnished upon customer's request.
- Inconel 625, T-316 Stainless Steel, Hastelloy C276, T-304 Stainless Steel, Alloy-X, Monel 400 bellows are available on request.
- Bellows can be extended up to 50% of the axial compression rating.
- Larger sizes available.

**PART NUMBERS AND OPTIONS FOR BELLOWS AND FLEX HOSE ASSEMBLIES**



**EXAMPLE:** Type 28 Assembly with Multiply Bellows (M), 8" Bellows Size (0800), 12" Outlet Flange (-12), 36" Overall Length (-36), with Flow Liner (L), T-304 S/S Fitting (H), 8" Cat Inlet Flange (C), Vanstone Inlet Flange (V)

**Letter Designations**

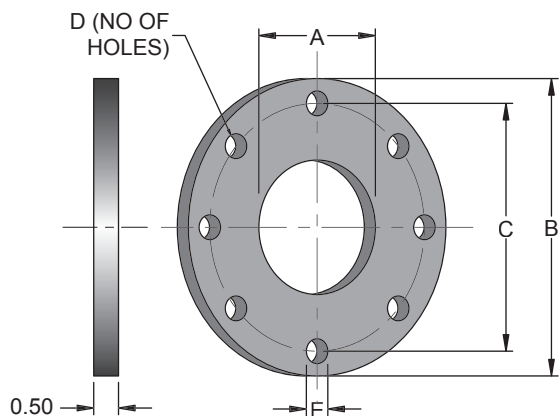
- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li><b>A</b> - Vanstone ANSI Flange Inlet And Outlet</li> <li><b>B</b> - Caterpillar Flange Both Inlet / Outlet</li> <li><b>C</b> - Caterpillar Flange Inlet / ANSI Outlet</li> <li><b>D</b> - Detroit Inlet / ANSI Outlet</li> <li><b>E</b> - T-316 Stainless Steel Fittings</li> <li><b>F</b> - Flexible Hose T-321 Stainless Steel</li> <li><b>G</b> - T-321 Stainless Steel Flanges</li> <li><b>H</b> - T-304 Stainless Steel Fittings</li> <li><b>I</b> - Inconel 625 Bellows</li> <li><b>J</b> - John Deere Inlet / ANSI Outlet</li> <li><b>K</b> - Kohler Inlet / ANSI Outlet</li> <li><b>L</b> - Flow Liner T-321 Stainless Steel</li> <li><b>M</b> - Multi-ply Bellows T-321 Stainless Steel</li> </ul> | <ul style="list-style-type: none"> <li><b>N</b> - Pipe Size Bellows</li> <li><b>O</b> - Onan Inlet / ANSI Outlet</li> <li><b>P</b> - Pipe Size</li> <li><b>Q</b> - Pyrometer Port</li> <li><b>R</b> - Raised Face Forged Steel Flanges</li> <li><b>S</b> - Single Ply bellows T-321 Stainless Steel</li> <li><b>T</b> - Tube Size</li> <li><b>U</b> - Cummins Inlet / ANSI Outlet</li> <li><b>V</b> - Vanstone Inlet Flange</li> <li><b>W</b> - T-321 Waukesha Lip Inlet / ANSI Outlet</li> <li><b>X</b> - Vanstone Outlet Flange</li> <li><b>Y</b> - Wye Assembly</li> <li><b>Z</b> - Telescoping Flow Liner</li> </ul> |
|---|--|

**Size Designations**

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li><b>1" Pipe</b> = 0130</li> <li><b>1-1/4" Pipe</b> = 0166</li> <li><b>1-1/2" Pipe</b> = 0190</li> <li><b>1-1/2" Tube</b> = 0150</li> <li><b>2" Pipe</b> = 0238</li> <li><b>2" Tube</b> = 0200</li> <li><b>2-1/2" Pipe</b> = 0288</li> <li><b>2-1/2" Tube</b> = 0250</li> <li><b>3" Pipe</b> = 0350</li> <li><b>3" Tube</b> = 0300</li> <li><b>3-1/2" Pipe</b> = 0401</li> <li><b>3-1/2" Tube</b> = 0351</li> <li><b>4" Pipe</b> = 0450</li> </ul> | <ul style="list-style-type: none"> <li><b>4" Tube</b> = 0400</li> <li><b>5" Pipe</b> = 0556</li> <li><b>5" Tube</b> = 0500</li> <li><b>6" Pipe</b> = 0663</li> <li><b>6" Tube</b> = 0600</li> <li><b>8" Pipe</b> = 0863</li> <li><b>8" Tube</b> = 0800</li> <li><b>10" Pipe</b> = 1075</li> <li><b>10" Tube</b> = 1000</li> <li><b>12" Pipe</b> = 1275</li> <li><b>12" Tube</b> = 1200</li> <li><b>14" Tube/Pipe</b> = 1400</li> <li><b>16" Tube/Pipe</b> = 1600</li> </ul> | <ul style="list-style-type: none"> <li><b>18" Tube/Pipe</b> = 1800</li> <li><b>20" Tube/Pipe</b> = 2000</li> <li><b>22" Tube/Pipe</b> = 2200</li> <li><b>24" Tube/Pipe</b> = 2400</li> <li><b>26" Tube/Pipe</b> = 2600</li> <li><b>28" Tube/Pipe</b> = 2800</li> <li><b>30" Tube/Pipe</b> = 3000</li> <li><b>36" Tube/Pipe</b> = 3600</li> <li><b>42" Tube/Pipe</b> = 4200</li> <li><b>48" Tube/Pipe</b> = 4800</li> <li><b>54" Tube/Pipe</b> = 5400</li> <li><b>60" Tube/Pipe</b> = 6000</li> </ul> |
|---|---|--|

**NOTE:** Letter Designations at the End of the Part Number are in Alphabetical Order.

**1/2" THICK A-36 STEEL WITH 125/150# DRILLING**



**OPTIONS:**

- T-304 Stainless Steel  
\* Add "H" at the End of the Part Number.
- T-316 Stainless Steel  
\* Add "E" at the End of the Part Number.
- Split Flanges are Available.

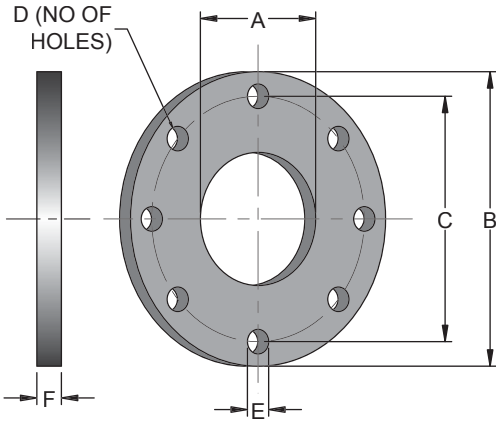
**NOTE:**

1-1/2" - 24" are Drilled to ANSI B16.5 Specifications  
26" - Up are Drilled to AWWA Class "D" Specifications

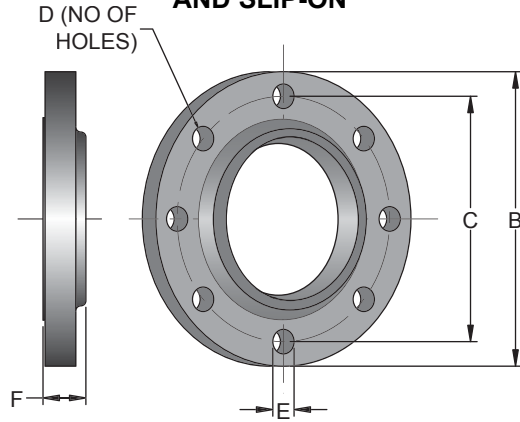
PIPE / TUBE SIZE	STANDARD ANSI FLANGES						REDUCING ANSI FLANGES			
	A I.D.	B O.D.	C B.C.	D	E	PART NO.	ONE SIZE		TWO SIZES	
							A I.D.	PART NO.	A I.D.	PART NO.
1.50" TUBE	1.56	5.00	3.88	4	0.63	F0150T	1.31	F0150T-1.25	0.81	F0150-.75
1.50" PIPE	1.95	5.00	3.88	4	0.63	F0150P	1.70	F0150P-1.25	1.09	F0150-.75
2" TUBE	2.06	6.00	4.75	4	0.75	F0200T	1.56	F0200T-1.50	1.31	F0200T-1.25
2" PIPE	2.44	6.00	4.75	4	0.75	F0200P	1.95	F0200P-1.50	1.70	F0200P-1.25
2.50" TUBE	2.56	7.00	5.50	4	0.75	F0250T	2.06	F0250T-2	1.56	F0250T-1.50
2.50" PIPE	2.94	7.00	5.50	4	0.75	F0250P	2.44	F0250P-2	1.95	F0250P-1.50
3" TUBE	3.06	7.50	6.00	4	0.75	F0300T	2.56	F0300T-2.50	2.06	F0300T-2
3" PIPE	3.57	7.50	6.00	4	0.75	F0300P	2.94	F0300P-2.50	2.44	F0300P-2
3.50" TUBE	3.56	8.50	7.00	8	0.75	F0350T	3.06	F0350T-3	2.56	F0350T-2.50
3.50" PIPE	4.07	8.50	7.00	8	0.75	F0350P	3.57	F0350P-3	2.94	F0350P-2.50
4" TUBE	4.06	9.00	7.50	8	0.75	F0400T	3.56	F0400T-3.50	3.06	F0400T-3
4" PIPE	4.57	9.00	7.50	8	0.75	F0400P	4.07	F0400P-3.50	3.57	F0400P-3
5" TUBE	5.06	10.00	8.50	8	0.88	F0500T	4.06	F0500T-4	3.56	F0500T-3.50
5" PIPE	5.66	10.00	8.50	8	0.88	F0500P	4.57	F0500P-4	4.07	F0500P-3.50
6" TUBE	6.06	11.00	9.50	8	0.88	F0600T	5.06	F0600T-5	4.06	F0600T-4
6" PIPE	6.72	11.00	9.50	8	0.88	F0600P	5.66	F0600P-5	4.57	F0600P-4
8" TUBE	8.06	13.50	11.75	8	0.88	F0800T	6.06	F0800T-6	5.06	F0800T-5
8" PIPE	8.72	13.50	11.75	8	0.88	F0800P	6.72	F0800P-6	5.66	F0800P-5
10" TUBE	10.06	16.00	14.25	12	1.00	F1000T	8.06	F1000T-8	6.06	F1000T-6
10" PIPE	10.88	16.00	14.25	12	1.00	F1000P	8.72	F1000P-8	6.72	F1000P-6
12" TUBE	12.06	19.00	17.00	12	1.00	F1200T	10.06	F1200T-10	8.06	F1200T-8
12" PIPE	12.88	19.00	17.00	12	1.00	F1200P	10.88	F1200P-10	8.72	F1200P-8
14" PIPE	14.13	21.00	18.75	12	1.13	F1400	12.88	F1400-12	10.88	F1400-10
16" PIPE	16.13	23.50	21.25	16	1.13	F1600	14.13	F1600-14	12.88	F1600-12
18" PIPE	18.13	25.00	22.75	16	1.25	F1800	16.13	F1800-16	14.13	F1800-14
20" PIPE	20.13	27.50	25.00	20	1.25	F2000	18.13	F2000-18	16.13	F2000-16
22" PIPE	22.13	29.50	27.25	20	1.38	F2200	20.13	F2200-20	18.13	F2200-18
24" PIPE	24.13	32.00	29.50	20	1.38	F2400	22.13	F2400-22	20.13	F2400-20
26" PIPE	26.13	34.25	31.75	24	1.38	F2600	24.13	F2600-24	22.13	F2600-22
28" PIPE	28.13	36.50	34.00	28	1.38	F2800	26.13	F2800-26	24.19	F2800-24
30" PIPE	30.13	38.75	36.00	28	1.38	F3000	28.13	F3000-28	26.13	F3000-26
36" PIPE	36.19	46.00	42.75	32	1.63	F3600	30.13	F3600-30	28.13	F3600-28
42" PIPE	42.13	53.00	49.50	36	1.63	F4200	36.19	F4200-36	30.13	F4200-30
48" PIPE	48.19	59.50	56.00	44	1.63	F4800	42.13	F4800-42	36.19	F4800-36
54" PIPE	54.13	66.25	62.75	44	1.88	F5400	48.19	F5400-48	42.13	F5400-42
60" PIPE	60.13	73.00	69.25	52	1.88	F6000	54.13	F6000-54	48.19	F6000-48

# FLANGES

## HEAVY DUTY PLATE FLANGE, A 36 STEEL 150#



## A-105 FORGED STEEL, 150# THREADED AND SLIP-ON



SIZE	A I.D.	B O.D.	C B.C.	D	E	F THK.	CARBON STEEL PART NO.	FORGED STEEL		F THK.
								SLIP-ON	THREADED*	
1.50"	1.95	5.00	3.88	4	0.63	0.63	FF0150	FG0150	TF0150	0.88
2"	2.44	6.00	4.75	4	0.75	0.63	FF0200	FG0200	TF0200	1.00
2.50"	2.94	7.00	5.50	4	0.75	0.63	FF0250	FG0250	TF0250	1.12
3"	3.57	7.50	6.00	4	0.75	0.63	FF0300	FG0300	TF0300	1.19
3.50"	4.07	8.50	7.00	8	0.75	0.63	FF0350	FG0350	TF0350	1.25
4"	4.57	9.00	7.50	8	0.75	0.63	FF0400	FG0400	TF0400	1.31
5"	5.66	10.00	8.50	8	0.88	0.75	FF0500	FG0500	TF0500	1.44
6"	6.72	11.00	9.50	8	0.88	0.75	FF0600	FG0600	TF0600	1.56
8"	8.72	13.50	11.75	8	0.88	1.00	FF0800	FG0800	TF0800	1.75
10"	10.88	16.00	14.25	12	1.00	1.00	FF1000	FG1000	TF1000	1.94
12"	12.88	19.00	17.00	12	1.00	1.00	FF1200	FG1200	TF1200	2.19
14"	14.13	21.00	18.75	12	1.13	1.00	FF1400	FG1400	N/A	2.25
16"	16.13	23.50	21.25	16	1.13	1.00	FF1600	FG1600	N/A	2.50
18"	18.13	25.00	22.75	16	1.25	1.06	FF1800	FG1800	N/A	2.69
20"	20.13	27.50	25.00	20	1.25	1.13	FF2000	FG2000	N/A	2.88
22"	22.13	29.50	27.25	20	1.38	1.19	FF2200	N/A	N/A	N/A
24"	24.13	32.00	29.50	20	1.38	1.25	FF2400	FG2400	N/A	3.25
26"	26.13	34.25	31.75	24	1.38	1.31	FF2600	N/A	N/A	N/A
28"	28.13	36.50	34.00	28	1.38	1.31	FF2800	N/A	N/A	N/A
30"	30.13	38.75	36.00	28	1.38	1.38	FF3000	N/A	N/A	N/A
36"	36.19	46.00	42.75	32	1.63	1.63	FF3600	N/A	N/A	N/A

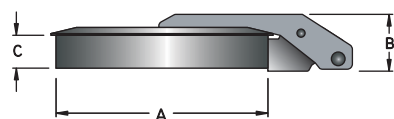
**NOTE: 1-1/2" - 24" are Drilled to ANSI B16.5 Specifications  
26" - Up are Drilled to AWWA Class "D" Specifications**

\* THREADED FLANGES MAY BE CAST

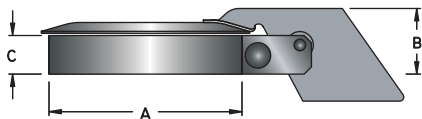
## SPECIAL ENGINE MANIFOLD FLANGES

SIZE	A I.D.	B O.D.	C B.C.	D	E	F THK.	CARBON STEEL PART NO.	T-304 S/S PART NO.	T-316 S/S PART NO.
5" CUMMINS	5.00	8.06	7.19	8	0.44	0.50	FCU0500	FCU0500H	FCU0500E
6" CUMMINS	6.00	8.06	7.19	8	0.44	0.50	FCU0600	FCU0600H	FCU0600E
8" CAT/DET	8.13	11.00	9.88	8	0.56	0.50	FC0800	FC0800H	FC0800E
10" DETROIT	10.00	13.00	11.88	8	0.63	0.50	FD1000	FD1000H	FD1000E
2.50" CAT	2.50	4.00 SQ.	4.56	4	0.56	0.50	FC0250	FC0250H	FC0250E
3" CAT	3.00	4.00 SQ.	4.56	4	0.56	0.50	FC0300	FC0300H	FC0300E
4" CAT	4.00	5.50 SQ.	5.88	4	0.56	0.50	FC0400	FC0400H	FC0400E
5" CAT	5.00	6.50 SQ.	7.06	4	0.75	0.50	FC0500	FC0500H	FC0500E
6" CAT	6.00	8.00 SQ.	8.50	4	0.75	0.50	FC0600	FC0600H	FC0600E
10" CAT	10.00	13.50	12.44	12	0.50	0.50	FC1000	FC1000H	FC1000E
12" CAT	12.00	15.75	14.81	12	0.50	0.50	FC1200	FC1200H	FC1200E
14" CAT	14.00	17.09	16.13	12	0.50	0.50	FC1400-35	FC1400-35H	FC1400-35E
14" CAT	14.00	17.94	16.94	12	0.56	0.50	FC1400-36	FC1400-36H	FC1400-36E
16" CAT	16.00	23.50	21.25	16	0.81	0.50	FC1600	FC1600H	FC1600E

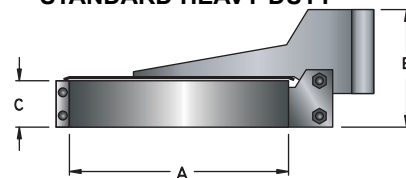
**LOW PROFILE**



**LIGHTWEIGHT**



**STANDARD HEAVY DUTY**



Quiet, rattle resistant design with a very low profile. Lifetime bronze hinge bearings and safety rivets provide worry free operation.

Economical lightweight raincap design, stamped sheet metal is formed for strength, zinc plated for corrosion resistance.

Standard construction with bronze hinge bearings. Precision counterweight design for a smooth balanced operation.

SIZE	LOW PROFILE QUIET CAP					LIGHTWEIGHT CAP				
	A	B	C	STEEL P/N	T-304 S/S P/N	A	B	C	STEEL P/N	T-304 S/S P/N
1-1/2" TUBE	N/A	N/A	N/A	N/A	N/A	1.56	1.25	0.88	RCT-1.50	N/A
1-3/4" TUBE	N/A	N/A	N/A	N/A	N/A	1.81	1.38	0.88	RCT-1.75	N/A
2" TUBE	N/A	N/A	N/A	N/A	N/A	2.06	1.63	0.88	RCT-2	N/A
2-1/2" TUBE	N/A	N/A	N/A	N/A	N/A	2.56	1.63	0.88	RCT-2.50	N/A
3" TUBE	N/A	N/A	N/A	N/A	N/A	3.06	1.63	0.88	RCT-3	N/A
3" PIPE	N/A	N/A	N/A	N/A	N/A	3.56	1.63	0.88	RCP-3	N/A
3-1/2" TUBE	N/A	N/A	N/A	N/A	N/A	3.56	1.63	0.88	RCT-3.50	N/A
3-1/2" PIPE	N/A	N/A	N/A	N/A	N/A	4.06	1.63	0.88	RCP-3.50	N/A
4" TUBE	N/A	N/A	N/A	N/A	N/A	4.06	1.63	0.88	RCT-4	N/A
4" PIPE	N/A	N/A	N/A	N/A	N/A	4.56	1.63	0.88	RCP-4	N/A
5" TUBE	5.06	3.25	1.50	RQT-5	RQT-5H	5.06	1.63	0.88	RCT-5	N/A
5" PIPE	5.63	3.25	1.50	RQP-5	RQP-5H	5.63	1.63	0.88	RCP-5	N/A
6" TUBE	6.06	3.25	1.50	RQT-6	RQT-6H	6.06	1.63	0.88	RCT-6	N/A
6" PIPE	6.69	3.25	1.50	RQP-6	RQP-6H	6.69	1.63	0.88	RCP-6	N/A

SIZE	LOW PROFILE QUIET CAP					STANDARD HEAVY DUTY CAP				
	A	B	C	STEEL P/N	T-304 S/S P/N	A	B	C	STEEL P/N	T-304 S/S P/N
8" TUBE	8.06	3.25	1.50	RQT-8	RQT-8H	8.06	7.13	2.63	RCT-8	RCT-8H
8" PIPE	8.69	3.25	1.50	RQP-8	RQP-8H	8.69	7.13	2.63	RCP-8	RCP-8H
10" TUBE	10.06	3.25	1.50	RQT-10	RQT-10H	10.06	7.13	2.63	RCT-10	RCT-10H
10" PIPE	10.81	3.25	1.50	RQP-10	RQP-10H	10.81	7.13	2.63	RCP-10	RCP-10H
12" TUBE	12.06	3.25	1.50	RQT-12	RQT-12H	12.06	7.13	2.63	RCT-12	RCT-12H
12" PIPE	12.81	3.25	1.50	RQP-12	RQP-12H	12.81	7.13	2.63	RCP-12	RCP-12H
14" PIPE	14.06	3.25	1.50	RQP-14	RQP-14H	14.06	7.13	2.63	RCP-14	RCP-14H
16" PIPE	16.06	3.25	1.50	RQP-16	RQP-16H	16.06	7.13	2.63	RCP-16	RCP-16H
18" PIPE	18.06	N/A	N/A	N/A	N/A	18.06	7.13	2.63	RCP-18	RCP-18H
20" PIPE	20.06	N/A	N/A	N/A	N/A	20.06	8.63	4.00	RCP-20	RCP-20H
22" PIPE	22.06	N/A	N/A	N/A	N/A	22.06	8.63	4.00	RCP-22	RCP-22H
24" PIPE	24.06	N/A	N/A	N/A	N/A	24.06	8.63	4.00	RCP-24	RCP-24H

**NOTES:**

- All Steel Raincaps Have High Heat Black Finish Except Lightweight Raincaps That Have Zinc Plating.
- All Raincaps Have Lifetime Lubricated Bronze Hinge Bearings.
- T-316 Stainless Steel Rain Caps Available. Change "H" to "E" at the End of the Part Number.
- 45° Rain Caps Available.
- Special Size Rain Caps Available.



**CATERPILLAR WYE ASSEMBLIES**

**MULTI-PLY BELLOWS EXHAUST WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
3208 NA	26.00	30.88	3" SLOTTED CUFF	4	SK31783-4M	5	SK31783-5M	6	SK31783-6M
G-379-389-399	32.25	17.00	6" CAT FLANGE	8	SK31082-8M	10	SK31082-10M	12	SK31082-12M
3508 B	33.00	17.18	6" CAT FLANGE	8	SK110895-8M	10	SK110895-10M	12	SK110895-12M
G 3512	32.25	17.33	6" CAT FLANGE	8	SK101700-8M	10	SK101700-10M	12	SK101700-12M
G 3516	32.25	17.20	6" CAT FLANGE	8	SK62597-8M	10	SK62597-10M	12	SK62597-12M
3512 B / 3516 B	39.00	20.50	8" CAT FLANGE	12	SK62090-12M	14	SK62090-14M	16	SK62090-16M

**FLEXIBLE HOSE WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
3208 NA	26.00	30.88	3" SLOTTED CUFF	4	SK31783-4F	5	SK31783-5F	6	SK31783-6F
G-379-389-399	32.25	17.00	6" CAT FLANGE	8	SK31082-8F	10	SK31082-10F	12	SK31082-12F
3508 B	33.00	17.18	6" CAT FLANGE	8	SK110895-8F	10	SK110895-10F	12	SK110895-12F
G 3512	32.25	17.33	6" CAT FLANGE	8	SK101700-8F	10	SK101700-10F	12	SK101700-12F
G 3516	32.25	17.20	6" CAT FLANGE	8	SK62597-8F	10	SK62597-10F	12	SK62597-12F
3512 B / 3516 B	39.00	20.50	8" CAT FLANGE	12	SK62090-12F	14	SK62090-14F	16	SK62090-16F

**WATER MANIFOLD WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
3412 WATER WYE	17.50	22.18	2.50" O.D. TUBE	4	SK11393-4	5	SK11393-5	6	SK11393-6
3412 WATER WYE	19.00	23.50	2.50" O.D. TUBE	4	SK8291-4	5	SK8291-5	6	SK8291-6
3412 WATER WYE	13.88	21.64	2.50" O.D. TUBE	4	SK111288-4	5	SK111288-5	6	SK111288-6

**CUMMINS / ONAN WYE ASSEMBLIES**

**MULTI-PLY BELLOWS EXHAUST WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
GTA 1710	29.00	10.00	4" O.D. TUBE	8	SK8489-8M	10	SK8489-10M	12	SK8489-12M
VTA 28 G1, G2	37.45	12.08	5" ASA FLANGE	8	SK7692-8M	10	SK7692-10M	12	SK7692-12M
KTA 38 G1, G2	43.00	55.96	6" CUMMINS FLG.	10	SK71493-10M	12	SK71493-12M	14	SK71493-14M
KTA 38 G3, G4, G5	35.50	14.48	6" CUMMINS FLG.	10	SK7692-4-10M	12	SK7692-4-12M	14	SK7692-4-14M
KTA 50 G1, G2	56.06	76.88	6" CUMMINS FLG.	10	SK7692-3-10M	12	SK7692-3-12M	14	SK7692-3-14M
KTA 50 G3, G4	38.00	17.28	6" CUMMINS FLG.	10	SK7692-5-10M	12	SK7692-5-12M	14	SK7692-5-14M
KTA 50 G8, G9	38.00	17.14	6" CUMMINS FLG.	10	SK93098-10M	12	SK93098-12M	14	SK93098-14M
KTTA 50 G2	52.26	70.52	8" ASA FLANGE	14	SK7692-2-14M	16	SK7692-2-16M	18	SK7692-2-18M
QST 30 G1, G2, G3	34.00	12.81	6" CUMMINS FLG.	10	SK73098-10M	12	SK73098-12M	14	SK73098-14M
QSK 60	36.00	56.27	10" ASA FLANGE	14	DM7575-14M	16	DM7575-16M	18	DM7575-18M

**FLEXIBLE HOSE WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
GTA 1710	29.00	10.00	4" O.D. TUBE	8	SK8489-8F	10	SK8489-10F	12	SK8489-12F
VTA 28 G1, G2	37.45	12.08	5" ASA FLANGE	8	SK7692-8F	10	SK7692-10F	12	SK7692-12F
KTA 38 G1, G2	43.00	55.96	6" CUMMINS FLG.	10	SK71493-10F	12	SK71493-12F	14	SK71493-14F
KTA 38 G3, G4, G5	35.50	14.48	6" CUMMINS FLG.	10	SK7692-4-10F	12	SK7692-4-12F	14	SK7692-4-14F
KTA 50 G1, G2	56.06	76.88	6" CUMMINS FLG.	10	SK7692-3-10F	12	SK7692-3-12F	14	SK7692-3-14F
KTA 50 G3, G4	38.00	17.28	6" CUMMINS FLG.	10	SK7692-5-10F	12	SK7692-5-12F	14	SK7692-5-14F
KTA 50 G8, G9	38.00	17.14	6" CUMMINS FLG.	10	SK93098-10F	12	SK93098-12F	14	SK93098-14F
KTTA 50 G2	52.26	70.52	8" ASA FLANGE	14	SK7692-2-14F	16	SK7692-2-16F	18	SK7692-2-18F
QST 30 G1, G2, G3	34.00	12.81	6" CUMMINS FLG.	10	SK73098-10F	12	SK73098-12F	14	SK73098-14F
QSK 60	36.00	56.27	10" ASA FLANGE	14	DM7575-14F	16	DM7575-16F	18	DM7575-18F

**DETROIT / KOHLER WYE ASSEMBLIES**

**MULTI-PLY BELLOWS EXHAUST WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
8 V 92 TTA	32.00	46.06	5" 20 DEG LIP FLG.	8	SK3189-8M	10	SK3189-10M	12	SK3189-12M
12 V 71 TA	36.50	45.70	5" 90 DEG TURBO	8	SK11393-8M	10	SK11393-10M	12	SK11393-12M
12 V 92 TA	27.88	32.25	5" 90 DEG TURBO	8	SK121683-8M	10	SK121683-10M	12	SK121683-12M
12 V 92 TA	27.25	32.25	5" 20 DEG LIP FLG.	8	SK42284-8M	10	SK42284-10M	12	SK42284-12M
16 V 71 TA ; 16 V 92 TA	18.44	32.38	5" 90 DEG TURBO	8	DM7831-8M	10	DM7831-10M	12	DM7831-12M
12 V 149 TIB	33.88	51.36	8" DETROIT FLG.	12	DM7220-1-12M	14	DM7220-1-14M	16	DM7220-1-16M
16 V 149 TI	34.38	46.00	10" DETROIT FLG.	14	DM7218-14M	16	DM7218-16M	18	DM7218-18M
20 V 149 TI	45.00	38.86	8" & 10" DET. FLG.	14	SK5395-14M	16	SK5395-16M	18	SK5395-18M
24 V 71 TA	36.00	51.55	10" DETROIT FLG.	14	SK8494-14M	16	SK8494-16M	18	SK8494-18M
8 V 2000	28.90	33.00	5" 90 DEG LIP FLG.	8	DM7661-8M	10	DM7661-10M	12	DM7661-12M
12 V 2000	29.02	34.19	5" 90 DEG LIP FLG.	8	DM7663-8M	10	DM7663-10M	12	DM7663-12M
16 V 2000	28.85	34.94	5" 90 DEG LIP FLG.	8	DM7665-8M	10	DM7665-10M	12	DM7665-12M
12 V 4000	34.75	18.50	10" DETROIT FLG.	14	DM7671-14M	16	DM7671-16M	18	DM7671-18M
16 V 4000	26.00	37.00	10" DETROIT FLG.	14	DM7675-14M	16	DM7675-16M	18	DM7675-18M

**FLEXIBLE HOSE WYE ASSEMBLIES**

ENGINE MODEL	HEIGHT	SPREAD	INLET	125 / 150# CARBON STEEL OUTLET FLANGE					
				SIZE	PART NO.	SIZE	PART NO.	SIZE	PART NO.
8 V 92 TTA	32.00	46.06	5" 20 DEG LIP FLG.	8	SK3189-8F	10	SK3189-10F	12	SK3189-12F
12 V 71 TA	36.50	45.70	5" 90 DEG TURBO	8	SK11393-8F	10	SK11393-10F	12	SK11393-12F
12 V 92 TA	27.88	32.25	5" 90 DEG TURBO	8	SK121683-8F	10	SK121683-10F	12	SK121683-12F
12 V 92 TA	27.25	32.25	5" 20 DEG LIP FLG.	8	SK42284-8F	10	SK42284-10F	12	SK42284-12F
16 V 71 TA ; 16 V 92 TA	18.44	32.38	5" 90 DEG TURBO	8	DM7831-8F	10	DM7831-10F	12	DM7831-12F
12 V 149 TIB	33.88	51.36	8" DETROIT FLG.	12	DM7220-1-12F	14	DM7220-1-14F	16	DM7220-1-16F
16 V 149 TI	34.38	46.00	10" DETROIT FLG.	14	DM7218-14F	16	DM7218-16F	18	DM7218-18F
20 V 149 TI	45.00	38.86	8" & 10" DET. FLG.	14	SK5395-14F	16	SK5395-16F	18	SK5395-18F
24 V 71 TA	36.00	51.55	10" DETROIT FLG.	14	SK8494-14F	16	SK8494-16F	18	SK8494-18F
8 V 2000	28.90	33.00	5" 90 DEG LIP FLG.	8	DM7661-8F	10	DM7661-10F	12	DM7661-12F
12 V 2000	29.02	34.19	5" 90 DEG LIP FLG.	8	DM7663-8F	10	DM7663-10F	12	DM7663-12F
16 V 2000	28.85	34.94	5" 90 DEG LIP FLG.	8	DM7665-8F	10	DM7665-10F	12	DM7665-12F
12 V 4000	34.75	18.50	10" DETROIT FLG.	14	DM7671-14F	16	DM7671-16F	18	DM7671-18F
16 V 4000	26.00	37.00	10" DETROIT FLG.	14	DM7675-14F	16	DM7675-16F	18	DM7675-18F

• Custom WYE Assemblies are Available

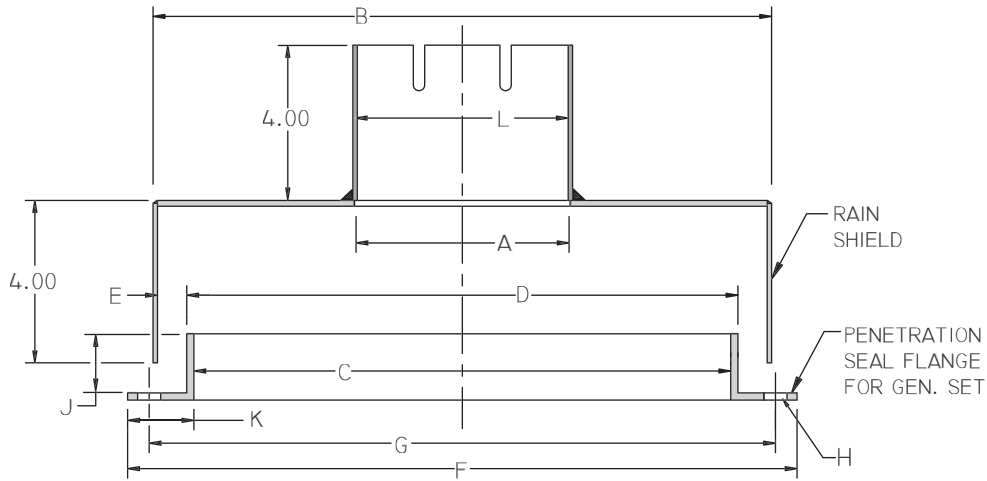
• Contact DME for Submittal Drawings



**DME INCORPORATED**

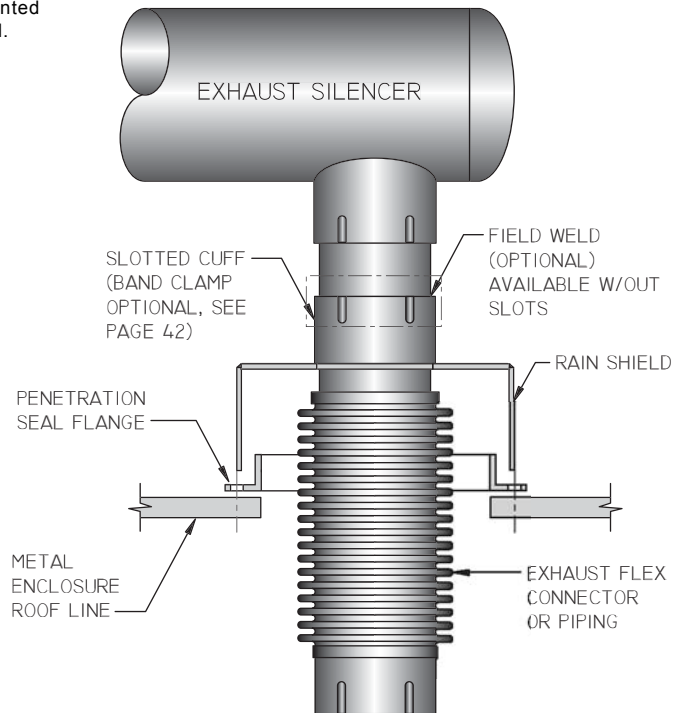
# RAIN SHIELD ASSEMBLY

## RAIN SHIELD ASSEMBLY FOR GENERATOR ENCLOSURE

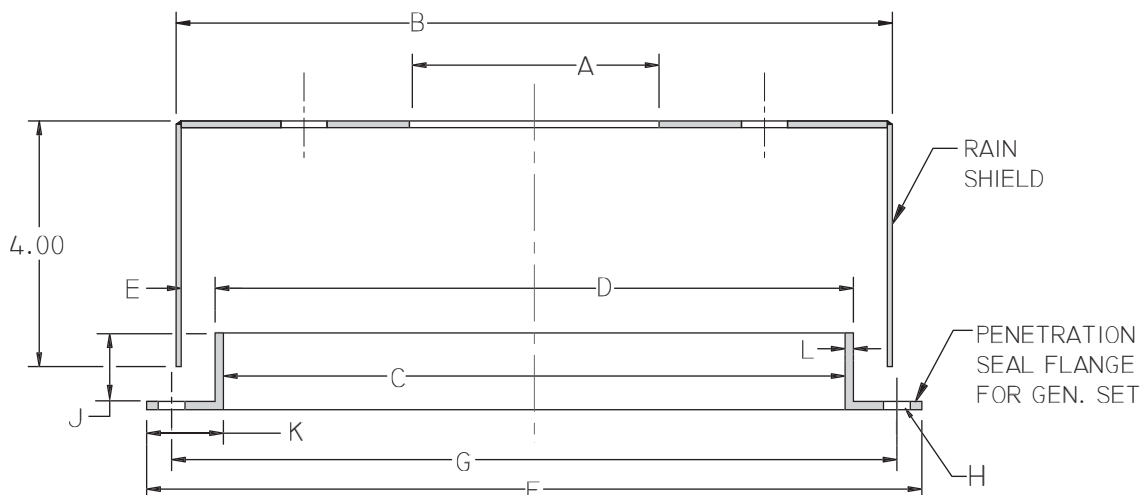


FLANGE SIZE	A I.D.	B	C I.D.	D O.D.	E	F	G D.B.C.	H HOLE DIA.	I # OF HOLES	J	K	L CUFF I.D.	PART NUMBER
2" TUBE	2.06	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.040	SK3984-2T
2" PIPE	2.44	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.415	SK3984-2P
2.5" TUBE	2.56	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.540	SK3984-2.5T
2.5" PIPE	2.94	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	2.915	SK3984-2.5P
3" TUBE	3.06	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	3.040	SK3984-3T
3" PIPE	3.56	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	3.540	SK3984-3P
4" TUBE	4.06	6.00	5.06	5.34	0.50	7.06	6.31	0.281	6	1.00	1.00	4.040	SK3984-4T
4" PIPE	4.56	6.00	5.06	5.34	0.50	7.06	6.31	0.281	6	1.00	1.00	4.540	SK3984-4P
5" TUBE	5.06	8.63	6.09	6.38	0.50	8.09	7.31	0.281	6	1.00	1.00	5.040	SK3984-5T
5" PIPE	5.62	8.63	6.09	6.38	0.50	8.09	7.31	0.281	6	1.00	1.00	5.603	SK3984-5P
6" TUBE	6.06	8.63	7.13	7.41	0.50	9.63	8.50	0.38	6	1.00	1.13	6.040	SK3984-6T
6" PIPE	6.69	8.63	7.13	7.41	0.50	9.63	8.50	0.38	6	1.00	1.13	6.665	SK3984-6P
8" TUBE	8.06	10.63	9.13	9.41	0.50	11.63	10.63	0.44	6	1.13	1.25	8.060	SK3984-8T
8" PIPE	8.69	10.63	9.13	9.41	0.50	11.63	10.63	0.44	6	1.13	1.25	8.685	SK3984-8P
10" TUBE	10.06	12.63	11.13	11.41	0.50	13.38	12.75	0.44	6	1.25	1.13	10.060	SK3984-10T
10" PIPE	10.81	12.63	11.13	11.41	0.50	13.38	12.75	0.44	6	1.25	1.13	10.810	SK3984-10P
12" TUBE	12.06	14.63	13.13	13.41	0.50	16.13	15.00	0.44	6	1.50	1.50	12.060	SK3984-12T
12" PIPE	12.81	14.63	13.13	13.41	0.50	16.13	15.00	0.44	8	1.50	1.50	12.810	SK3984-12P
14" TUBE	14.06	16.00	15.13	15.50	0.50	18.13	17.00	0.44	8	1.50	1.50	14.060	SK3984-14

- All Steel Components are Painted With High Heat Black Enamel.
- Available in T-304 or T-316 Stainless Steel Construction.

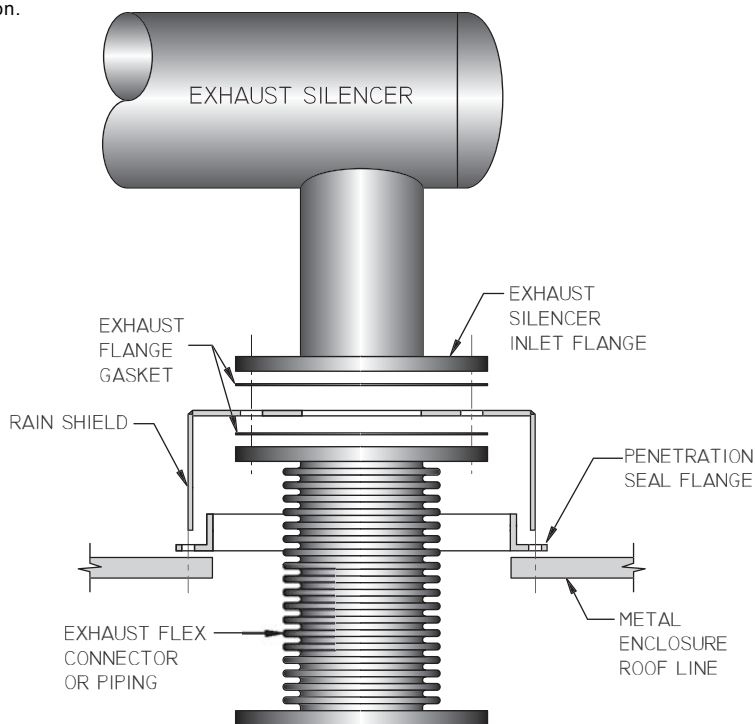


RAIN SHIELD ASSEMBLY FOR GENERATOR ENCLOSURE



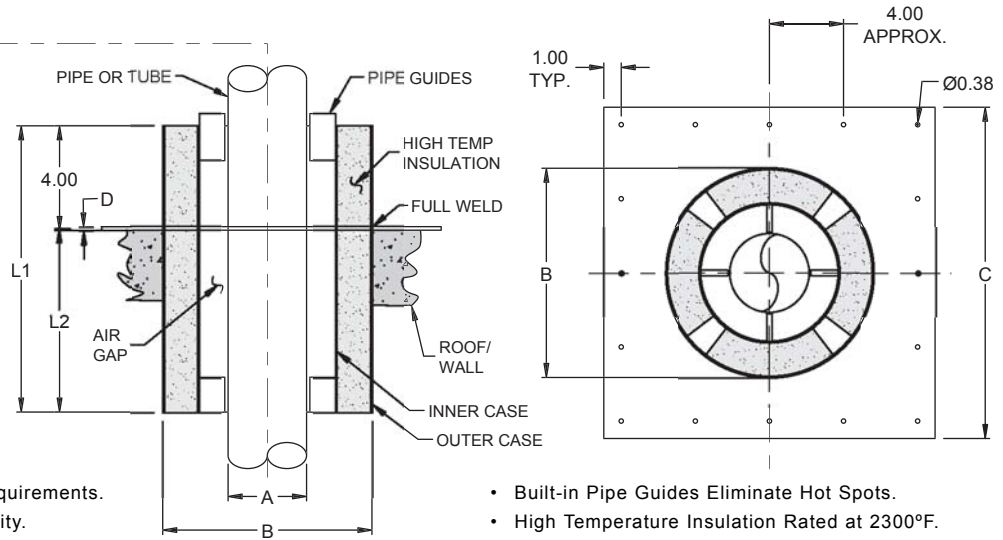
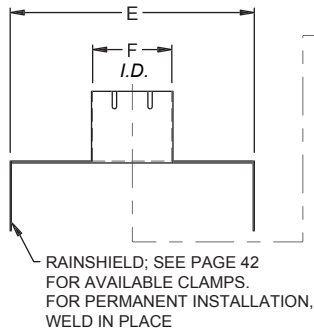
FLANGE SIZE	A I.D.	B	C I.D.	D O.D.	E	F	G D.B.C.	H HOLE DIA.	I # OF HOLES	J	K	L THK.	PART NUMBER
4"	4.57	11.38	10.13	10.38	0.50	12.63	11.81	0.44	6	1.25	1.25	0.135	SK3284-4
5"	5.66	12.38	11.13	11.38	0.50	13.88	12.75	0.44	6	1.25	1.25	0.135	SK3284-5
6"	6.72	13.38	12.13	12.38	0.50	15.13	14.00	0.44	8	1.50	1.50	0.135	SK3284-6
8"	8.72	15.38	14.13	14.38	0.50	17.13	16.00	0.44	8	1.50	1.50	0.135	SK3284-8
10"	10.88	18.50	17.13	17.50	0.50	20.13	19.00	0.44	8	1.50	1.50	0.187	SK3284-10
12"	12.88	21.50	20.13	20.50	0.50	23.13	21.75	0.44	12	1.50	1.50	0.187	SK3284-12
14"	14.14	23.50	22.13	22.50	0.50	25.13	23.75	0.44	12	1.50	1.50	0.187	SK3284-14
16"	16.16	26.00	24.13	24.50	0.75	27.13	25.88	0.44	12	1.50	1.50	0.187	SK3284-16
18"	18.18	28.00	26.13	26.50	0.75	30.13	28.38	0.44	16	2.00	2.00	0.187	SK3284-18

- All Steel Components are Painted With High Heat Black Enamel.
- Available in T-304 or T-316 Stainless Steel Construction.



# INSULATED ROOF / WALL THIMBLE

## COMPACT DESIGN MEETS NFPA 37 REQUIREMENTS



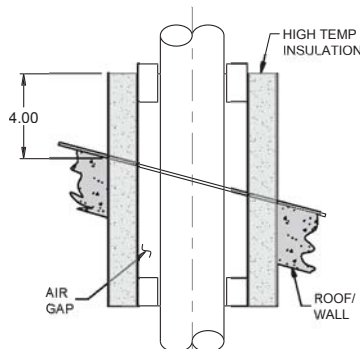
### FEATURES:

- Meets or Exceeds NFPA 37 Requirements.
- Designed With Structural Integrity.
- Heavy Wall Steel Construction.
- Built-in Pipe Guides Eliminate Hot Spots.
- High Temperature Insulation Rated at 2300°F.
- Standard Finish High Heat Black Enamel.

PIPE / TUBE O.D.	CARBON STEEL					FITS 1" THRU 5" THK. WALL / ROOF			FITS 6" THRU 10" THK. WALL / ROOF			FITS 11" THRU 15" THK. WALL / ROOF			
	A	B	C	D	E	F	L1	L2	PART NO.	L1	L2	PART NO.	L1	L2	PART NO.
1.50"	10.00	16.00	0.25	12.00	1.54		13.00	9.00	WRT0150T-5	18.00	14.00	WRT0150T-10	23.00	19.00	WRT0150T-15
1.90"	10.00	16.00	0.25	12.00	1.94		13.00	9.00	WRT0150P-5	18.00	14.00	WRT0150P-10	23.00	19.00	WRT0150P-15
2.00"	10.00	16.00	0.25	12.00	2.04		13.00	9.00	WRT0200T-5	18.00	14.00	WRT0200T-10	23.00	19.00	WRT0200T-15
2.38"	10.00	16.00	0.25	12.00	2.42		13.00	9.00	WRT0200P-5	18.00	14.00	WRT0200P-10	23.00	19.00	WRT0200P-15
2.50"	10.00	16.00	0.25	12.00	2.54		13.00	9.00	WRT0250T-5	18.00	14.00	WRT0250T-10	23.00	19.00	WRT0250T-15
2.88"	10.00	16.00	0.25	12.00	2.92		13.00	9.00	WRT0250P-5	18.00	14.00	WRT0250P-10	23.00	19.00	WRT0250P-15
3.00"	12.00	18.00	0.25	14.00	3.04		13.00	9.00	WRT0300T-5	18.00	14.00	WRT0300T-10	23.00	19.00	WRT0300T-15
3.50"	12.00	18.00	0.25	14.00	3.54		13.00	9.00	WRT0300P-5	18.00	14.00	WRT0300P-10	23.00	19.00	WRT0300P-15
4.00"	12.00	18.00	0.25	14.00	4.04		13.00	9.00	WRT0400T-5	18.00	14.00	WRT0400T-10	23.00	19.00	WRT0400T-15
4.50"	12.00	18.00	0.25	14.00	4.54		13.00	9.00	WRT0400P-5	18.00	14.00	WRT0400P-10	23.00	19.00	WRT0400P-15
5.00"	14.00	20.00	0.25	16.00	5.04		13.00	9.00	WRT0500T-5	18.00	14.00	WRT0500T-10	23.00	19.00	WRT0500T-15
5.56"	14.00	20.00	0.25	16.00	5.62		13.00	9.00	WRT0500P-5	18.00	14.00	WRT0500P-10	23.00	19.00	WRT0500P-15
6.00"	14.00	20.00	0.25	16.00	6.04		13.00	9.00	WRT0600T-5	18.00	14.00	WRT0600T-10	23.00	19.00	WRT0600T-15
6.63"	14.00	20.00	0.25	16.00	6.67		13.00	9.00	WRT0600P-5	18.00	14.00	WRT0600P-10	23.00	19.00	WRT0600P-15
8.00"	16.00	22.00	0.25	18.00	8.06		13.00	9.00	WRT0800T-5	18.00	14.00	WRT0800T-10	23.00	19.00	WRT0800T-15
8.63"	16.00	22.00	0.25	18.00	8.67		13.00	9.00	WRT0800P-5	18.00	14.00	WRT0800P-10	23.00	19.00	WRT0800P-15
10.00"	18.00	24.00	0.25	20.00	10.06		13.00	9.00	WRT1000T-5	18.00	14.00	WRT1000T-10	23.00	19.00	WRT1000T-15
10.75"	18.00	24.00	0.25	20.00	10.81		13.00	9.00	WRT1000P-5	18.00	14.00	WRT1000P-10	23.00	19.00	WRT1000P-15
12.00"	20.00	26.00	0.25	22.00	12.06		13.00	9.00	WRT1200T-5	18.00	14.00	WRT1200T-10	23.00	19.00	WRT1200T-15
12.75"	20.00	26.00	0.25	22.00	12.81		13.00	9.00	WRT1200P-5	18.00	14.00	WRT1200P-10	23.00	19.00	WRT1200P-15
14.00"	22.00	28.00	0.25	24.00	14.06		13.00	9.00	WRT1400P-5	18.00	14.00	WRT1400P-10	23.00	19.00	WRT1400P-15
16.00"	24.00	30.00	0.25	26.00	16.06		13.00	9.00	WRT1600P-5	18.00	14.00	WRT1600P-10	23.00	19.00	WRT1600P-15
18.00"	26.00	32.00	0.25	28.00	18.06		13.00	9.00	WRT1800P-5	18.00	14.00	WRT1800P-10	23.00	19.00	WRT1800P-15
20.00"	28.00	34.00	0.25	30.00	20.06		13.00	9.00	WRT2000P-5	18.00	14.00	WRT2000P-10	23.00	19.00	WRT2000P-15
22.00"	30.00	36.00	0.25	32.00	22.06		13.00	9.00	WRT2200P-5	18.00	14.00	WRT2200P-10	23.00	19.00	WRT2200P-15
24.00"	32.00	38.00	0.25	34.00	24.06		13.00	9.00	WRT2400P-5	18.00	14.00	WRT2400P-10	23.00	19.00	WRT2400P-15



### OPTIONAL PITCHED ROOF DESIGN



### TEMPERATURE REDUCTION

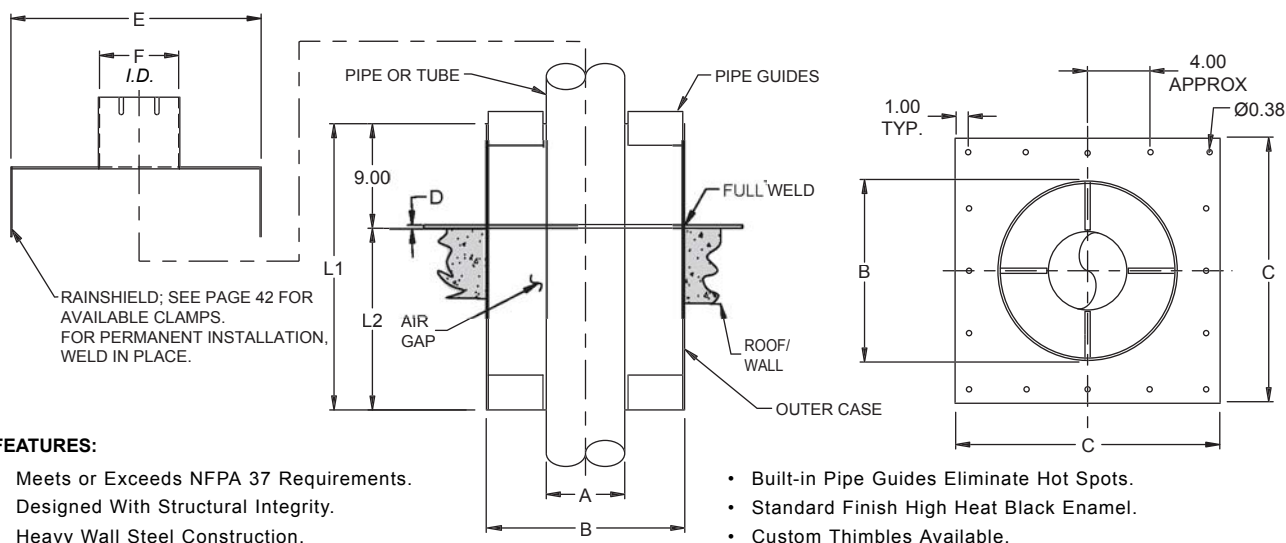
1000°F Exhaust temperature reduced to 191°F outside case temperature.

1100°F Exhaust temperature reduced to 210°F outside case temperature.

1200°F Exhaust temperature reduced to 230°F outside case temperature.

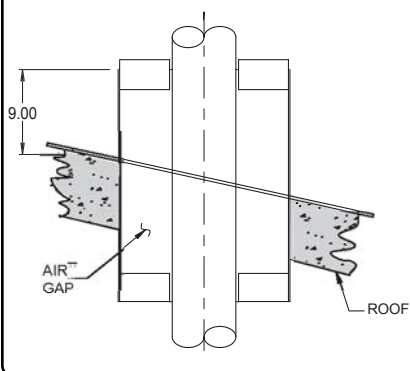


# NON-INSULATED ROOF / WALL THIMBLE



PIPE / TUBE O.D.	CARBON STEEL					FITS 1" THRU 5" THK. WALL / ROOF			FITS 6" THRU 10" THK. WALL / ROOF			FITS 11" THRU 15" THK. WALL / ROOF		
	A	B	C	D	E	F	L1	L2	PART NO.	L1	L2	PART NO.	L1	L2
1.50"	14.00	20.00	0.25	16.00	1.54	23.00	14.00	NIT0150T-5	28.00	19.00	NIT0150T-10	33.00	24.00	NIT0150T-15
1.90"	14.00	20.00	0.25	16.00	1.94	23.00	14.00	NIT0150P-5	28.00	19.00	NIT0150P-10	33.00	24.00	NIT0150P-15
2.00"	14.00	20.00	0.25	16.00	2.04	23.00	14.00	NIT0200T-5	28.00	19.00	NIT0200T-10	33.00	24.00	NIT0200T-15
2.38"	16.00	22.00	0.25	18.00	2.42	23.00	14.00	NIT0200P-5	28.00	19.00	NIT0200P-10	33.00	24.00	NIT0200P-15
2.50"	16.00	22.00	0.25	18.00	2.54	23.00	14.00	NIT0250T-5	28.00	19.00	NIT0250T-10	33.00	24.00	NIT0250T-15
2.88"	16.00	22.00	0.25	18.00	2.92	23.00	14.00	NIT0250P-5	28.00	19.00	NIT0250P-10	33.00	24.00	NIT0250P-15
3.00"	16.00	22.00	0.25	18.00	3.04	23.00	14.00	NIT0300T-5	28.00	19.00	NIT0300T-10	33.00	24.00	NIT0300T-15
3.50"	16.00	22.00	0.25	18.00	3.54	23.00	14.00	NIT0300P-5	28.00	19.00	NIT0300P-10	33.00	24.00	NIT0300P-15
4.00"	16.00	22.00	0.25	18.00	4.04	23.00	14.00	NIT0400T-5	28.00	19.00	NIT0400T-10	33.00	24.00	NIT0400T-15
4.50"	18.00	24.00	0.25	20.00	4.54	23.00	14.00	NIT0400P-5	28.00	19.00	NIT0400P-10	33.00	24.00	NIT0400P-15
5.00"	18.00	24.00	0.25	20.00	5.04	23.00	14.00	NIT0500T-5	28.00	19.00	NIT0500T-10	33.00	24.00	NIT0500T-15
5.56"	18.00	24.00	0.25	20.00	5.62	23.00	14.00	NIT0500P-5	28.00	19.00	NIT0500P-10	33.00	24.00	NIT0500P-15
6.00"	18.00	24.00	0.25	20.00	6.04	23.00	14.00	NIT0600T-5	28.00	19.00	NIT0600T-10	33.00	24.00	NIT0600T-15
6.63"	20.00	26.00	0.25	22.00	6.67	23.00	14.00	NIT0600P-5	28.00	19.00	NIT0600P-10	33.00	24.00	NIT0600P-15
8.00"	20.00	26.00	0.25	22.00	8.06	23.00	14.00	NIT0800T-5	28.00	19.00	NIT0800T-10	33.00	24.00	NIT0800T-15
8.63"	22.00	28.00	0.25	24.00	8.67	23.00	14.00	NIT0800P-5	28.00	19.00	NIT0800P-10	33.00	24.00	NIT0800P-15
10.00"	22.00	28.00	0.25	24.00	10.06	23.00	14.00	NIT1000T-5	28.00	19.00	NIT1000T-10	33.00	24.00	NIT1000T-15
10.75"	24.00	30.00	0.25	26.00	10.81	23.00	14.00	NIT1000P-5	28.00	19.00	NIT1000P-10	33.00	24.00	NIT1000P-15
12.00"	24.00	30.00	0.25	26.00	12.06	23.00	14.00	NIT1200T-5	28.00	19.00	NIT1200T-10	33.00	24.00	NIT1200T-15
12.75"	26.00	32.00	0.25	28.00	12.81	23.00	14.00	NIT1200P-5	28.00	19.00	NIT1200P-10	33.00	24.00	NIT1200P-15
14.00"	26.00	32.00	0.25	28.00	14.06	23.00	14.00	NIT1400P-5	28.00	19.00	NIT1400P-10	33.00	24.00	NIT1400P-15
16.00"	28.00	34.00	0.25	30.00	16.06	23.00	14.00	NIT1600P-5	28.00	19.00	NIT1600P-10	33.00	24.00	NIT1600P-15
18.00"	30.00	36.00	0.25	32.00	18.06	23.00	14.00	NIT1800P-5	28.00	19.00	NIT1800P-10	33.00	24.00	NIT1800P-15
20.00"	32.00	38.00	0.25	34.00	20.06	23.00	14.00	NIT2000P-5	28.00	19.00	NIT2000P-10	33.00	24.00	NIT2000P-15
22.00"	34.00	40.00	0.25	36.00	22.06	23.00	14.00	NIT2200P-5	28.00	19.00	NIT2200P-10	33.00	24.00	NIT2200P-15
24.00"	36.00	42.00	0.25	38.00	24.06	23.00	14.00	NIT2400P-5	28.00	19.00	NIT2400P-10	33.00	24.00	NIT2400P-15

### OPTIONAL PITCHED ROOF DESIGN



### ADD TO L1 FOR PITCHED ROOF DESIGN

PITCH	OUTSIDE CASE DIAMETER (INSULATED OR NON-INSULATED)													
	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
0.5 - 12	.42	.50	.60	.67	.75	.83	.92	1.0	1.1	1.2	1.3	1.4	1.4	1.5
1.0 - 12	.83	1.0	1.2	1.4	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.8	3.0
1.5 - 12	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	3.5	3.8	4.0	4.3	4.5
2.0 - 12	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	4.3	4.7	5.0	5.3	5.7	6.0
3.0 - 12	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
4.0 - 12	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	8.7	9.3	10.0	10.7	11.3	12.0
5.0 - 12	4.2	5.0	5.8	6.7	7.5	8.3	9.2	10.0	10.8	11.7	12.5	13.3	14.2	15.0
6.0 - 12	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	18.0	20.0

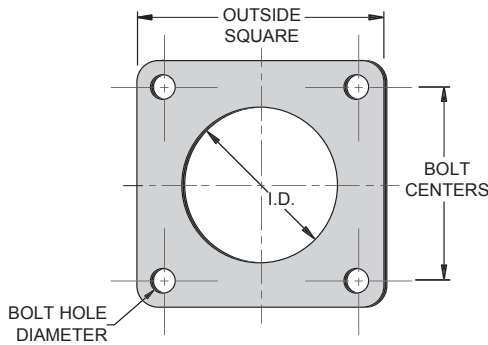
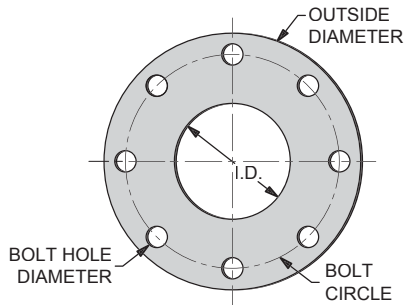
Add Pitch to End of Part Number:

Example: WRT1200P-15-4.0-12 is for a 4 / 12 Pitched Roof.



# GASKETS, NUTS, & BOLTS

## STANDARD GASKETS, NUTS, AND BOLTS



FOR DIMENSIONS, REFER TO FLANGE SPECIFICATION ON PAGE 31 - 32.

**EACH KIT CONTAINS:**  
(1) GASKET  
(1) SET NUTS AND BOLTS

FLANGE SIZE 150# ANSI	NON-ASBESTOS - RATED 900°F *					GRAPHITE / WIRE REINFORCED - RATED 1000°F				
	GASKET ONLY	NUT, BOLT, GASKET KIT (STD.)	STD. BOLT LENGTH	NUT, BOLT, GASKET KIT (LONG)	LONG BOLT LENGTH	GASKET ONLY	NUT, BOLT, GASKET KIT (STD.)	STD. BOLT LENGTH	NUT, BOLT, GASKET KIT (LONG)	LONG BOLT LENGTH
1-1/2"	G0150	GK0150	2"	GKL0150	3"	GR0150	GRK0150	2"	GRKL0150	3"
2"	G0200	GK0200	2"	GKL0200	3"	GR0200	GRK0200	2"	GRKL0200	3"
2-1/2"	G0250	GK0250	2"	GKL0250	3"	GR0250	GRK0250	2"	GRKL0250	3"
3"	G0300	GK0300	2"	GKL0300	3"	GR0300	GRK0300	2"	GRKL0300	3"
3-1/2"	G0350	GK0350	2"	GKL0350	3"	GR0350	GRK0350	2"	GRKL0350	3"
4"	G0400	GK0400	2"	GKL0400	3"	GR0400	GRK0400	2"	GRKL0400	3"
5"	G0500	GK0500	2"	GKL0500	3"	GR0500	GRK0500	2"	GRKL0500	3"
6"	G0600	GK0600	2"	GKL0600	3"	GR0600	GRK0600	2"	GRKL0600	3"
8"	G0800	GK0800	2"	GKL0800	3"	GR0800	GRK0800	2"	GRKL0800	3"
10"	G1000	GK1000	2"	GKL1000	3"	GR1000	GRK1000	2"	GRKL1000	3"
12"	G1200	GK1200	2"	GKL1200	3"	GR1200	GRK1200	2"	GRKL1200	3"
14"	G1400	GK1400	2-1/2"	GKL1400	4"	GR1400	GRK1400	2-1/2"	GRKL1400	4"
16"	G1600	GK1600	2-1/2"	GKL1600	4"	GR1600	GRK1600	2-1/2"	GRKL1600	4"
18"	G1800	GK1800	2-1/2"	GKL1800	4"	GR1800	GRK1800	2-1/2"	GRKL1800	4"
20"	G2000	GK2000	2-1/2"	GKL2000	4"	GR2000	GRK2000	2-1/2"	GRKL2000	4"
22"	G2200	GK2200	2-1/2"	GKL2200	4"	GR2200	GRK2200	2-1/2"	GRKL2200	4"
24"	G2400	GK2400	2-1/2"	GKL2400	4"	GR2400	GRK2400	2-1/2"	GRKL2400	4"
26"	G2600	GK2600	2-1/2"	GKL2600	4"	GR2600	GRK2600	2-1/2"	GRKL2600	4"
28"	G2800	GK2800	2-1/2"	GKL2800	4"	GR2800	GRK2800	2-1/2"	GRKL2800	4"
30"	G3000	GK3000	2-1/2"	GKL3000	5"	GR3000	GRK3000	2-1/2"	GRKL3000	5"
36"	G3600	GK3600	3"	GKL3600	5"	GR3600	GRK3600	3"	GRKL3600	5"
42"	G4200	GK4200	3"	GKL4200	5"	GR4200	GRK4200	3"	GRKL4200	5"
48"	G4800	GK4800	3"	GKL4800	6"	GR4800	GRK4800	3"	GRKL4800	6"
<b>CAT</b>										
4"	G0400C	GK0400C	2"	N/A	N/A	GR0400C	GRK0400C	2"	N/A	N/A
5"	G0500C	GK0500C	2"	N/A	N/A	GR0500C	GRK0500C	2"	N/A	N/A
6"	G0600C	GK0600C	2"	N/A	N/A	GR0600C	GRK0600C	2"	N/A	N/A
8"	G0800C	GK0800C	2"	N/A	N/A	GR0800C	GRK0800C	2"	N/A	N/A
10"	G1000C	GK1000C	2"	N/A	N/A	GR1000C	GRK1000C	2"	N/A	N/A
12"	G1200C	GK1200C	2"	N/A	N/A	GR1200C	GRK1200C	2"	N/A	N/A
14"	G1401C	GK1401C	2"	N/A	N/A	GR1401C	GRK1401C	2"	N/A	N/A
14"	G1402C	GK1402C	2"	N/A	N/A	GR1402C	GRK1402C	2"	N/A	N/A
16"	G1600C	GK1600C	2"	N/A	N/A	GR1600C	GRK1600C	2"	N/A	N/A
<b>CUMMINS</b>										
5"	G0500U	GK0500U	2"	N/A	N/A	GR0500U	GRK0500U	2"	N/A	N/A
6"	G0600U	GK0600U	2"	N/A	N/A	GR0600U	GRK0600U	2"	N/A	N/A
<b>DETROIT</b>										
8"	G0800D	GK0800D	2"	N/A	N/A	GR0800D	GRK0800D	2"	N/A	N/A
10"	G1000D	GK1000D	2"	N/A	N/A	GR1000D	GRK1000D	2"	N/A	N/A

\* - 900°F Rating is for Exhaust Service Only

### NOTES:

- Standard Bolts are to Join two 1/2" Thk. Flanges.
- Gaskets are Full Face With Bolt Holes 1/16" Thk. Std.
- Bolts are Carbon Steel ASTM A307 Grade A.
- DME Makes Custom Gaskets.
- Studs may be Furnished in Lieu of Long Bolts.
- For T-304 S/S Bolts, Add "H" to the End of the Part Number.



**HIGH TEMPERATURE GASKETS, NUTS, AND BOLTS**



FLANGE SIZE 150# ANSI	REINFORCED MICA - RATED 1650°F					SPIRAL RING GASKET - RATED 1000°F				
	GASKET ONLY	NUT, BOLT, GASKET KIT (STD.)	STD. BOLT LENGTH	NUT, BOLT, GASKET KIT (LONG)	LONG BOLT LENGTH	GASKET ONLY	NUT, BOLT, GASKET KIT (STD.)	STD. BOLT LENGTH	NUT, BOLT, GASKET KIT (LONG)	LONG BOLT LENGTH
1-1/2"	GM0150	GMK0150	2"	GMKL0150	3"	GS0150	GSK0150	2"	GSKL0150	3"
2"	GM0200	GMK0200	2"	GMKL0200	3"	GS0200	GSK0200	2"	GSKL0200	3"
2-1/2"	GM0250	GMK0250	2"	GMKL0250	3"	GS0250	GSK0250	2"	GSKL0250	3"
3"	GM0300	GMK0300	2"	GMKL0300	3"	GS0300	GSK0300	2"	GSKL0300	3"
3-1/2"	GM0350	GMK0350	2"	GMKL0350	3"	GS0350	GSK0350	2"	GSKL0350	3"
4"	GM0400	GMK0400	2"	GMKL0400	3"	GS0400	GSK0400	2"	GSKL0400	3"
5"	GM0500	GMK0500	2"	GMKL0500	3"	GS0500	GSK0500	2"	GSKL0500	3"
6"	GM0600	GMK0600	2"	GMKL0600	3"	GS0600	GSK0600	2"	GSKL0600	3"
8"	GM0800	GMK0800	2"	GMKL0800	3"	GS0800	GSK0800	2"	GSKL0800	3"
10"	GM1000	GMK1000	2"	GMKL1000	3"	GS1000	GSK1000	2"	GSKL1000	3"
12"	GM1200	GMK1200	2"	GMKL1200	3"	GS1200	GSK1200	2"	GSKL1200	3"
14"	GM1400	GMK1400	2-1/2"	GMKL1400	4"	GS1400	GSK1400	2-1/2"	GSKL1400	4"
16"	GM1600	GMK1600	2-1/2"	GMKL1600	4"	GS1600	GSK1600	2-1/2"	GSKL1600	4"
18"	GM1800	GMK1800	2-1/2"	GMKL1800	4"	GS1800	GSK1800	2-1/2"	GSKL1800	4"
20"	GM2000	GMK2000	2-1/2"	GMKL2000	4"	GS2000	GSK2000	2-1/2"	GSKL2000	4"
22"	GM2200	GMK2200	2-1/2"	GMKL2200	4"	GS2200	GSK2200	2-1/2"	GSKL2200	4"
24"	GM2400	GMK2400	2-1/2"	GMKL2400	4"	GS2400	GSK2400	2-1/2"	GSKL2400	4"
<b>CAT</b>										
4"	GM0400C	GMK0400C	2"	N/A	N/A	GS0400C	GSK0400C	2"	N/A	N/A
5"	GM0500C	GMK0500C	2"	N/A	N/A	GS0500C	GSK0500C	2"	N/A	N/A
6"	GM0600C	GMK0600C	2"	N/A	N/A	GS0600C	GSK0600C	2"	N/A	N/A
8"	GM0800C	GMK0800C	2"	N/A	N/A	GS0800C	GSK0800C	2"	N/A	N/A
10"	GM1000C	GMK1000C	2"	N/A	N/A	GS1000C	GSK1000C	2"	N/A	N/A
12"	GM1200C	GMK1200C	2"	N/A	N/A	GS1200C	GSK1200C	2"	N/A	N/A
14"	GM1401C	GMK1401C	2"	N/A	N/A	GS1401C	GSK1401C	2"	N/A	N/A
14"	GM1402C	GMK1402C	2"	N/A	N/A	GS1402C	GSK1402C	2"	N/A	N/A
16"	GM1600C	GMK1600C	2"	N/A	N/A	GS1600C	GSK1600C	2"	N/A	N/A
<b>CUMMINS</b>										
5"	GM0500U	GMK0500U	2"	N/A	N/A	GS0500U	GSK0500U	2"	N/A	N/A
6"	GM0600U	GMK0600U	2"	N/A	N/A	GS0600U	GSK0600U	2"	N/A	N/A
<b>DETROIT</b>										
8"	GM0800D	GMK0800D	2"	N/A	N/A	GS0800D	GSK0800D	2"	N/A	N/A
10"	GM1000D	GMK1000D	2"	N/A	N/A	GS1000D	GSK1000D	2"	N/A	N/A

**NOTES:**

- Standard Bolts are to Join Two 1/2" Thk. Flanges.
- Studs may be Furnished in Lieu of Long Bolts
- Gaskets are Full Face with Bolt Holes, 1/16" Thk.
- Bolts are T-316 Stainless Steel.
- DME Makes Custom Gaskets.

**NOTES:**

- Ring Gaskets Have T-316 Stainless Steel Reinforcing Ring. (No Bolt Holes)
- Spiral Ring Gaskets are 1/8" Thick
- Bolts are Carbon Steel ASTM A307 Grade A.

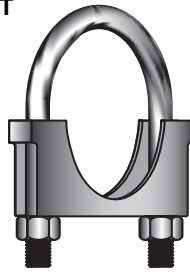
**EACH KIT CONTAINS:**

- (1) GASKET
- (1) SET NUTS AND BOLTS

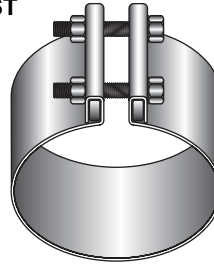
**DME INCORPORATED**

# CLAMPS

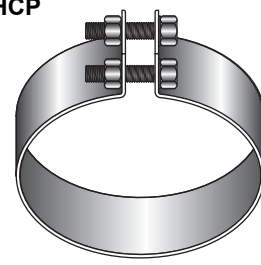
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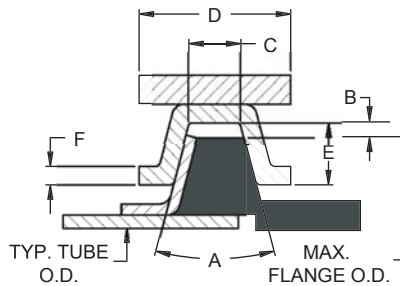
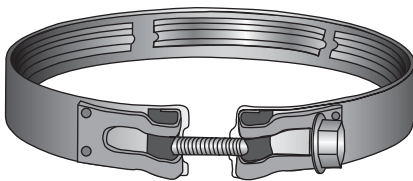
TST



HCP



SIZE	FITS O.D.	U-BOLT SADDLE CLAMP ZINC PLATED PART NO.	3" WIDE S/S BAND CLAMP STRETCH OVER JOINT FOR SEALING ONLY PART NO.	2-1/2" WIDE 12 GA T-304 S/S HEAVY DUTY CLAMP. CUSTOM SIZES AVAILABLE. PART NO.
1-1/2" TUBE	1.50	ECT-0150	TST-0150	N/A
1-1/2" PIPE	1.90	ECP-0150	N/A	N/A
2" TUBE	2.00	ECT-0200	TST-0200	N/A
2" PIPE	2.38	ECP-0200	N/A	N/A
2-1/2" TUBE	2.50	ECT-0250	TST-0250	N/A
2-1/2" PIPE	2.88	ECP-0250	N/A	N/A
3" TUBE	3.00	ECT-0300	TST-0300	N/A
3" PIPE	3.50	ECP-0300	TSP-0300	HCP-0300
3-1/2" TUBE	3.50	ECT-0350	TST-0350	HCT-0350
3-1/2" PIPE	4.00	ECP-0350	TSP-0350	HCP-0350
4" TUBE	4.00	ECT-0400	TST-0400	HCT-0400
4" PIPE	4.50	ECP-0400	N/A	HCP-0400
5" TUBE	5.00	ECT-0500	TST-0500	HCT-0500
5" PIPE	5.56	ECP-0500	N/A	HCP-0500
6" TUBE	6.00	ECT-0600	TST-0600	HCT-0600
6" PIPE	6.63	N/A	N/A	HCP-0600
8" TUBE	8.00	N/A	TST-0800	HCT-0800
8" PIPE	8.63	N/A	N/A	HCP-0800
10" TUBE	10.00	N/A	TST-1000	HCT-1000
10" PIPE	10.75	N/A	N/A	HCP-1000
12" TUBE	12.00	N/A	TST-1200	HCT-1200
12" PIPE	12.75	N/A	N/A	HCP-1200
14" PIPE	14.00	N/A	N/A	HCP-1400
16" PIPE	16.00	N/A	N/A	HCP-1600
18" PIPE	18.00	N/A	N/A	HCP-1800
20" PIPE	20.00	N/A	N/A	HCP-2000
22" PIPE	22.00	N/A	N/A	HCP-2200
24" PIPE	24.00	N/A	N/A	HCP-2400

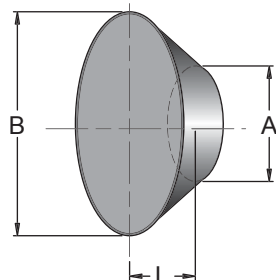


## V-BAND CLAMPS

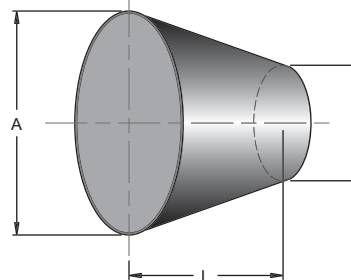
SIZE	A	B	C	D	E	F	MAX FLG.	PART NO.
3-1/2"	40°	4.50	.207	0.88	0.28	.080	4.38	V88-356
4"	40°	4.81	.207	0.88	0.28	.080	4.63	V88-469
5"	40°	5.43	.262	0.75	0.14	.050	5.15	V88-456
5"	40°	5.88	.400	0.88	0.28	.050	5.73	V88-506
5"	40°	5.86	.293	1.13	0.30	.080	5.80	V88-511

# DME INCORPORATED

**CT - SHORT**



**CTL - LONG**

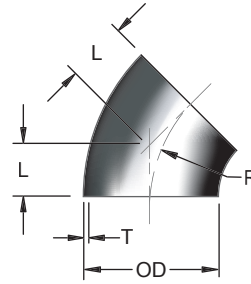
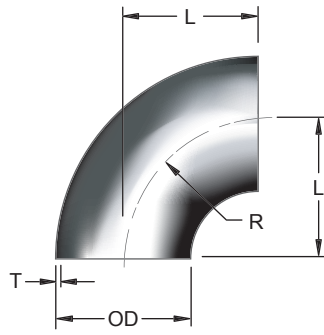


O.D. INLET A	O.D. OUTLET B	WALL THK.	SHORT			LONG		
			L	A-36 STEEL	T-304 S/S	L	A-36 STEEL	T-304 S/S
4	5	.065	2"	CT040502	CT040502-H	4"	CTL040504	CTL040504-H
4	6	.065	3"	CT040603	CT040603-H	6"	CTL040606	CTL040606-H
5	6	.065	2"	CT050602	CT050602-H	4"	CTL050604	CTL050604-H
5	8	.065	3"	CT050803	CT050803-H	6"	CTL050806	CTL050806-H
6	8	.065	2"	CT060802	CT060802-H	4"	CTL060804	CTL060804-H
6	10	.065	3"	CT061003	CT061003-H	6"	CTL061006	CTL061006-H
8	10	.065	2"	CT081002	CT081002-H	4"	CTL081004	CTL081004-H
8	12	.105	3"	CT081203	CT081203-H	6"	CTL081206	CTL081206-H
8	14	.105	4"	CT081404	CT081404-H	8"	CTL081408	CTL081408-H
10	12	.105	2"	CT101202	CT101202-H	4"	CTL101204	CTL101204-H
10	14	.105	3"	CT101403	CT101403-H	6"	CTL101406	CTL101403-H
10	16	.105	4"	CT101604	CT101604-H	8"	CTL101608	CTL101608-H
12	14	.105	2"	CT121402	CT121402-H	4"	CTL121404	CTL121404-H
12	16	.105	3"	CT121603	CT121603-H	6"	CTL121606	CTL121606-H
12	18	.105	4"	CT121804	CT121804-H	8"	CTL121808	CTL121808-H
14	16	.105	3"	CT141603	CT141603-H	6"	CTL141606	CTL141606-H
14	18	.105	6"	CT141806	CT141806-H	12"	CTL141812	CTL141812-H
14	20	.105	8"	CT142008	CT142008-H	16"	CTL142016	CTL142016-H
16	18	.105	3"	CT161803	CT161803-H	6"	CTL161806	CTL161806-H
16	20	.105	6"	CT162006	CT162006-H	12"	CTL162012	CTL162012-H
16	22	.105	8"	CT162208	CT162208-H	16"	CTL162216	CTL162216-H
18	20	.105	3"	CT182003	CT182003-H	6"	CTL182006	CTL182006-H
18	22	.105	6"	CT182206	CT182206-H	12"	CTL182212	CTL182212-H
18	24	.105	8"	CT182408	CT182408-H	16"	CTL182416	CTL182416-H
20	22	.134	3"	CT202203	CT202203-H	6"	CTL202206	CTL202206-H
20	24	.134	6"	CT202406	CT202406-H	12"	CTL202412	CTL202412-H
20	26	.134	8"	CT202608	CT202608-H	16"	CTL202616	CTL202616-H
22	24	.134	3"	CT222403	CT222403-H	6"	CTL222406	CTL222406-H
22	26	.134	6"	CT222606	CT222606-H	12"	CTL222612	CTL222612-H
22	30	.134	8"	CT223008	CT223008-H	16"	CTL223016	CTL223016-H
24	26	.134	3"	CT242603	CT242603-H	6"	CTL242606	CTL242606-H
24	30	.134	6"	CT243006	CT243006-H	12"	CTL243012	CTL243012-H
24	36	.134	8"	CT243608	CT243608-H	16"	CTL243616	CTL243616-H

**NOTES:**

- Cones can be Ordered in Longer Lengths and Heavier Materials up to 3/8" Thick.
- T-316, T-321, and Inconel 625 Construction is Also Available.
- Pipe Size Transitions are Available on Request.

# TUBE ELBOWS



**SR90 - SHORT RADIUS 90 DEGREE**

**SR45 - SHORT RADIUS 45 DEGREE**

TUBE O.D.	CARBON					CARBON				
	R	L	T	STEEL	T-304 S/S	R	L	T	STEEL	T-304 S/S
1-1/2"	1.50	1.50	.065	SR90-0150	SR90-0150H	1.50	0.62	.065	SR45-0150	SR45-0150H
2"	2.00	2.00	.065	SR90-0200	SR90-0200H	2.00	0.83	.065	SR45-0200	SR45-0200H
2-1/2"	2.50	2.50	.065	SR90-0250	SR90-0250H	2.50	1.04	.065	SR45-0250	SR45-0250H
3"	3.00	3.00	.065	SR90-0300	SR90-0300H	3.00	1.24	.065	SR45-0300	SR45-0300H
3-1/2"	3.50	3.50	.065	SR90-0350	SR90-0350H	3.50	1.45	.065	SR45-0350	SR45-0350H
4"	4.00	4.00	.065	SR90-0400	SR90-0400H	4.00	1.66	.065	SR45-0400	SR45-0400H
5"	5.50	5.50	.065	SR90-0500	SR90-0500H	5.50	2.28	.065	SR45-0500	SR45-0500H
6"	6.00	6.00	.065	SR90-0600	SR90-0600H	6.00	2.49	.065	SR45-0600	SR45-0600H
8"	9.88	9.88	.105	SR90-0800	SR90-0800H	9.88	4.03	.105	SR45-0800	SR45-0800H
10"	10.00	10.00	.135	SR90-1000	SR90-1000H	10.00	4.14	.135	SR45-1000	SR45-1000H
12"	12.00	12.00	.105	SR90-1200	SR90-1200H	12.00	4.97	.105	SR45-1200	SR45-1200H
14"	14.00	14.00	.135	N/A	SR90-1400H	14.00	5.80	.135	N/A	SR45-1400H
16"	16.00	16.00	.135	N/A	SR90-1600H	16.00	6.63	.135	N/A	SR45-1600H
18"	18.00	18.00	.135	N/A	SR90-1800H	18.00	7.46	.135	N/A	SR45-1800H

**LR90 - LONG RADIUS 90 DEGREE**

**LR45 - LONG RADIUS 45 DEGREE**

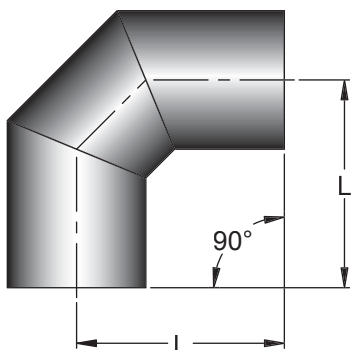
TUBE O.D.	CARBON					CARBON				
	R	L	T	STEEL	T-304 S/S	R	L	T	STEEL	T-304 S/S
1-1/2"	3.00	3.00	.065	LR90-0150	LR90-0150H	3.00	1.24	.065	LR45-0150	LR45-0150H
2"	4.00	4.00	.065	LR90-0200	LR90-0200H	4.00	1.66	.065	LR45-0200	LR45-0200H
2-1/2"	5.00	5.00	.065	LR90-0250	LR90-0250H	5.00	2.07	.065	LR45-0250	LR45-0250H
3"	6.00	6.00	.065	LR90-0300	LR90-0300H	6.00	2.49	.065	LR45-0300	LR45-0300H
3-1/2"	7.00	7.00	.065	LR90-0350	LR90-0350H	7.00	2.90	.065	LR45-0350	LR45-0350H
4"	8.00	8.00	.065	LR90-0400	LR90-0400H	8.00	3.31	.065	LR45-0400	LR45-0400H
5"	10.00	10.00	.065	LR90-0500	LR90-0500H	10.00	4.14	.065	LR45-0500	LR45-0500H
6"	12.00	12.00	.065	LR90-0600	LR90-0600H	12.00	4.97	.065	LR45-0600	LR45-0600H
8"	12.00	12.00	.105	N/A	LR90-0800H	12.00	4.97	.105	N/A	LR45-0800H
10"	15.00	15.00	.135	N/A	LR90-1000H	15.00	6.21	.135	N/A	LR45-1000H
12"	18.00	18.00	.105	N/A	LR90-1200H	18.00	7.46	.105	N/A	LR45-1200H
14"	21.00	21.00	.135	N/A	LR90-1400H	21.00	8.70	.135	N/A	LR45-1400H
16"	24.00	24.00	.135	N/A	LR90-1600H	24.00	9.94	.135	N/A	LR45-1600H
18"	27.00	27.00	.135	N/A	LR90-1800H	27.00	11.18	.135	N/A	LR45-1800H

**OPTIONS:**

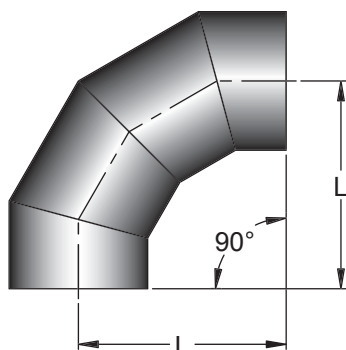
- T-316 Stainless Steel Available on Request.
- Elbows can be Cut in Any Degree Required.  
Change "90" in the Part Number to the New Degree.



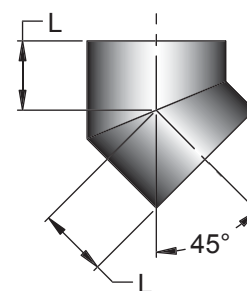
**90 DEGREE  
3 PCS CONSTRUCTION**



**90 DEGREE  
4 PCS CONSTRUCTION**



**45 DEGREE  
2 PCS CONSTRUCTION**



**MT - LONG RADIUS**

TUBE O.D.	RAD.	L	THK.	90° (3 PCS CONST.)		90° (4 PCS CONST.)		45° (2 PCS CONST.)		
				CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS	L	CARBON STEEL	T-304 STAINLESS
14"	21"	21"	.109"	MT93-1400	MT93-1400H	MT94-1400	MT94-1400H	8.75	MT42-1400	MT42-1400H
16"	24"	24"	.109"	MT93-1600	MT93-1600H	MT94-1600	MT94-1600H	10.00	MT42-1600	MT42-1600H
18"	27"	27"	.109"	MT93-1800	MT93-1800H	MT94-1800	MT94-1800H	11.25	MT42-1800	MT42-1800H
20"	30"	30"	.134"	MT93-2000	MT93-2000H	MT94-2000	MT94-2000H	12.50	MT42-2000	MT42-2000H
22"	33"	33"	.134"	MT93-2200	MT93-2200H	MT94-2200	MT94-2200H	13.75	MT42-2200	MT42-2200H
24"	36"	36"	.134"	MT93-2400	MT93-2400H	MT94-2400	MT94-2400H	15.00	MT42-2400	MT42-2400H

**SMT - SHORT RADIUS**

TUBE O.D.	RAD.	L	THK.	90° (3 PCS CONST.)		90° (4 PCS CONST.)	
				CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS
14"	14"	14"	.109"	SMT93-1400	SMT93-1400H	SMT94-1400	SMT94-1400H
16"	16"	16"	.109"	SMT93-1600	SMT93-1600H	SMT94-1600	SMT94-1600H
18"	18"	18"	.109"	SMT93-1800	SMT93-1800H	SMT94-1800	SMT94-1800H
20"	20"	20"	.134"	SMT93-2000	SMT93-2000H	SMT94-2000	SMT94-2000H
22"	22"	22"	.134"	SMT93-2200	SMT93-2200H	SMT94-2200	SMT94-2200H
24"	24"	24"	.134"	SMT93-2400	SMT93-2400H	SMT94-2400	SMT94-2400H

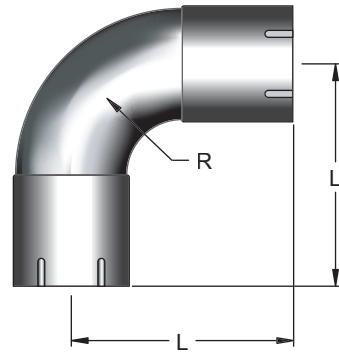
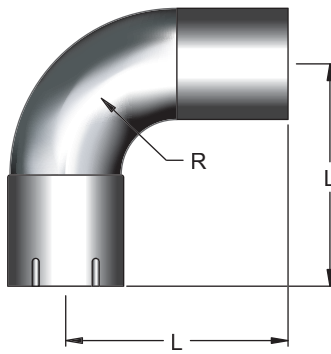
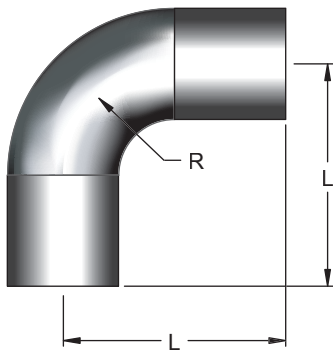


**OPTIONS:**

- Heavy Wall Construction Up to 3/8" Thick Available.
- Elbows can be Made in Any Degree Required.
- Longer "L" Dimension Available.
- Flanged Ends Available.
- T-316 Stainless Steel Available.



# TUBE ELBOWS WITH TANGENT ENDS



PE - PLAIN TUBE ENDS

PS - PLAIN TUBE X SLOTTED CUFF

SC - SLOTTED CUFF ENDS

S/R ELBOW				PLAIN ENDS		PLAIN X SLOTTED		SLOTTED ENDS	
TUBE O.D.	R	L	THK.	CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS
2"	2.00	6.00	.065"	PE0200	PE0200H	PS0200	PS0200H	SC0200	SC0200H
2-1/2"	2.50	6.50	.065"	PE0250	PE0250H	PS0250	PS0250H	SC0250	SC0250H
3"	3.00	7.00	.065"	PE0300	PE0300H	PS0300	PS0300H	SC0300	SC0300H
3-1/2"	3.50	7.50	.065"	PE0350	PE0350H	PS0350	PS0350H	SC0350	SC0350H
4"	4.00	8.00	.065"	PE0400	PE0400H	PS0400	PS0400H	SC0400	SC0400H
5"	5.50	9.50	.065"	PE0500	PE0500H	PS0500	PS0500H	SC0500	SC0500H
6"	6.00	10.00	.065"	PE0600	PE0600H	PS0600	PS0600H	SC0600	SC0600H
8"	9.88	13.88	.105"	PE0800	PE0800H	PS0800	PS0800H	SC0800	SC0800H
10"	10.00	14.00	.135"	PE1000	PE1000H	PS1000	PS1000H	SC1000	SC1000H
12"	12.00	16.00	.109"	PE1200	PE1200H	PS1200	PS1200H	SC1200	SC1200H
14"	14.00	18.00	.109"	N/A	PE1400H	N/A	N/A	N/A	N/A
16"	16.00	20.00	.134"	N/A	PE1600H	N/A	N/A	N/A	N/A
18"	18.00	22.00	.134"	N/A	PE1800H	N/A	N/A	N/A	N/A

L/R ELBOW				PLAIN ENDS		PLAIN X SLOTTED		SLOTTED ENDS	
TUBE O.D.	R	L	THK.	CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS	CARBON STEEL	T-304 STAINLESS
2"	4.00	8.00	.065"	PEL0200	PEL0200H	PSL0200	PSL0200H	SCL0200	SCL0200H
2-1/2"	5.00	9.00	.065"	PEL0250	PEL0250H	PSL0250	PSL0250H	SCL0250	SCL0250H
3"	6.00	10.00	.065"	PEL0300	PEL0300H	PSL0300	PSL0300H	SCL0300	SCL0300H
3-1/2"	7.00	11.00	.065"	PEL0350	PEL0350H	PSL0350	PSL0350H	SCL0350	SCL0350H
4"	8.00	12.00	.065"	PEL0400	PEL0400H	PSL0400	PSL0400H	SCL0400	SCL0400H
5"	10.00	14.00	.065"	PEL0500	PEL0500H	PSL0500	PSL0500H	SCL0500	SCL0500H
6"	12.00	16.00	.065"	PEL0600	PEL0600H	PSL0600	PSL0600H	SCL0600	SCL0600H
8"	12.00	16.00	.105"	N/A	PEL0800H	N/A	PSL0800H	N/A	SCL0800H
10"	15.00	19.00	.135"	N/A	PEL1000H	N/A	PSL1000H	N/A	SCL1000H
12"	18.00	22.00	.109"	N/A	PEL1200H	N/A	PSL1200H	N/A	SCL1200H
14"	21.00	25.00	.109"	N/A	PEL1400H	N/A	N/A	N/A	N/A
16"	24.00	28.00	.134"	N/A	PEL1600H	N/A	N/A	N/A	N/A
18"	27.00	31.00	.134"	N/A	PEL1800H	N/A	N/A	N/A	N/A

**NOTE:**

- Slotted Cuffs are Tube Size.

**OPTIONS:**

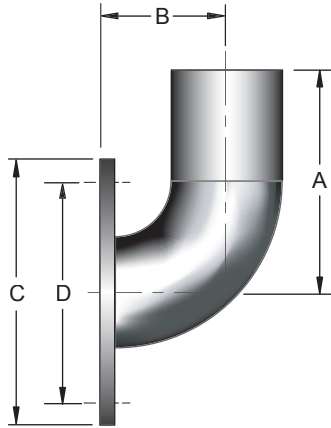
- Transition Cuffs for Size Reduction
- Longer / Shorter Lengths Available
- Pipe Size Cuffs are Available
- T-316 Stainless Steel Available



# EXHAUST OUTLET EXTENSIONS

## EOT - 90 DEGREE FLANGED TUBE ELBOW

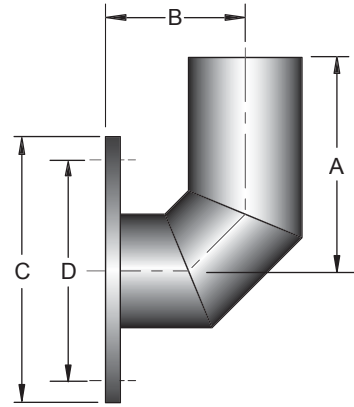
125/150# ANSI FLANGE  
90 DEGREE S.R. TUBE ELBOW



SIZE	A	B	C	D	C/S	T-304 S/S
2"	6.00	2.50	6.00	4.75	EOT-0200-6	EOT-0200-6H
2-1/2"	6.50	3.00	7.00	5.50	EOT-0250-6.5	EOT-0250-6.5H
3"	7.00	3.50	7.50	6.00	EOT-0300-7	EOT-0300-7H
3-1/2"	7.50	4.00	8.50	7.00	EOT-0350-7.5	EOT-0350-7.5H
4"	8.00	4.50	9.00	7.50	EOT-0400-8	EOT-0400-8H
5"	9.50	6.00	10.00	8.50	EOT-0500-9.5	EOT-0500-9.5H
6"	10.00	6.50	11.00	9.50	EOT-0600-10	EOT-0600-10H
8"	14.00	10.38	13.50	11.75	EOT-0800-14	EOT-0800-14H
10"	14.00	10.50	16.00	14.25	EOT-1000-14	EOT-1000-14H
12"	16.00	12.50	19.00	17.00	EOT-1200-16	EOT-1200-16H

## EOM - 90 DEGREE FLANGED TUBE MITERED ELBOW

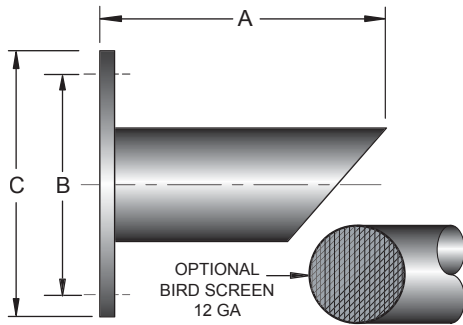
125/150# ANSI FLANGE  
90 DEGREE MITERED ELBOW



SIZE	A	B	C	D	C/S	T-304 S/S
14"	18.00	14.50	21.00	18.75	EOM-1400-18	EOM-1400-18H
16"	20.00	16.50	23.50	21.25	EOM-1600-20	EOM-1600-20H
18"	22.00	18.50	25.00	22.75	EOM-1800-22	EOM-1800-22H
20"	24.00	20.50	27.50	25.00	EOM-2000-24	EOM-2000-24H
22"	26.00	22.50	29.50	27.25	EOM-2200-26	EOM-2200-26H
24"	28.00	24.50	32.00	29.50	EOM-2400-28	EOM-2400-28H
26"	30.00	26.50	34.25	31.75	EOM-2600-30	EOM-2600-30H
28"	32.00	28.50	36.50	34.00	EOM-2800-32	EOM-2800-32H
30"	34.00	30.50	38.75	36.00	EOM-3000-34	EOM-3000-34H
36"	40.00	36.50	46.00	42.75	EOM-3600-40	EOM-3600-40H

## EMS - 45 DEGREE MITERED OUTLET EXTENSION

125/150# ANSI FLANGE A-36  
TUBE X 45 DEGREE CUT OUTLET

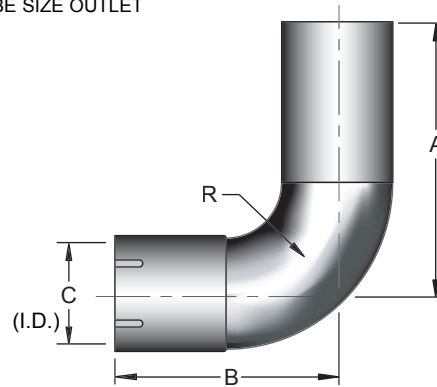


SIZE	A	B	C	C/S	T-304 S/S
3"	18.00	6.00	7.50	EMS-0300-18	EMS-0300-18H
3-1/2"	18.00	7.00	8.50	EMS-0350-18	EMS-0350-18H
4"	18.00	7.50	9.00	EMS-0400-18	EMS-0400-18H
5"	18.00	8.50	10.00	EMS-0500-18	EMS-0500-18H
6"	18.00	9.50	11.00	EMS-0600-18	EMS-0600-18H
8"	18.00	11.75	13.50	EMS-0800-18	EMS-0800-18H
10"	20.00	14.25	16.00	EMS-1000-20	EMS-1000-20H
12"	24.00	17.00	19.00	EMS-1200-24	EMS-1200-24H
14"	24.00	18.75	21.00	EMS-1400-24	EMS-1400-24H
16"	28.00	21.25	23.50	EMS-1600-28	EMS-1600-28H
18"	30.00	22.75	25.00	EMS-1800-30	EMS-1800-30H
20"	34.00	25.00	27.50	EMS-2000-34	EMS-2000-34H
22"	36.00	27.25	29.50	EMS-2200-36	EMS-2200-36H
24"	40.00	29.50	32.00	EMS-2400-40	EMS-2400-40H

For Birdscreen change P/N to "EMSB".

## ECS - SLOTTED CUFF X TUBE

90 DEGREE S.R. TUBE ELBOW  
SLOTTED CUFF (PIPE OR TUBE) INLET  
TUBE SIZE OUTLET



SIZE	A	B	C	R	C/S	T-304 S/S
2"	6.00	6.00	2.040	2.00	ECS-0200-6	ECS-0200-6H
2.50"	6.50	6.50	2.540	2.50	ECS-0250-6.5	ECS-0250-6.5H
3" Tube	7.00	7.00	3.040	3.00	ECS-0300-7	ECS-0300-7H
3" Pipe	7.00	7.50	3.540	3.50	ECS-0350-7	ECS-0350-7H
4" Tube	8.00	8.00	4.040	4.00	ECS-0400-8	ECS-0400-8H
4" Pipe	8.00	8.00	4.540	4.00	ECS-0400-8	ECS-0400-8H
5" Tube	9.50	9.50	5.040	5.50	ECS-0500-9.5	ECS-0500-9.5H
5" Pipe	9.50	9.50	5.603	5.50	ECS-0500-9.5	ECS-0500-9.5H
6" Tube	10.00	10.00	6.040	6.00	ECS-0600-10	ECS-0600-10H
6" Pipe	10.00	10.00	6.665	6.00	ECS-0600-10	ECS-0600-10H
8" Tube	14.00	13.88	8.060	9.88	ECS-0800-14	ECS-0800-14H
8" Pipe	14.00	13.88	8.685	9.88	ECS-0800-14	ECS-0800-14H
10" Tube	14.00	14.00	10.060	10.00	ECS-1000-14	ECS-1000-14H
10" Pipe	14.00	14.00	10.810	10.00	ECS-1000-14	ECS-1000-14H
12" Tube	16.00	16.00	12.060	12.00	ECS-1200-16	ECS-1200-16H
12" Pipe	16.00	16.00	12.810	12.00	ECS-1200-16	ECS-1200-16H

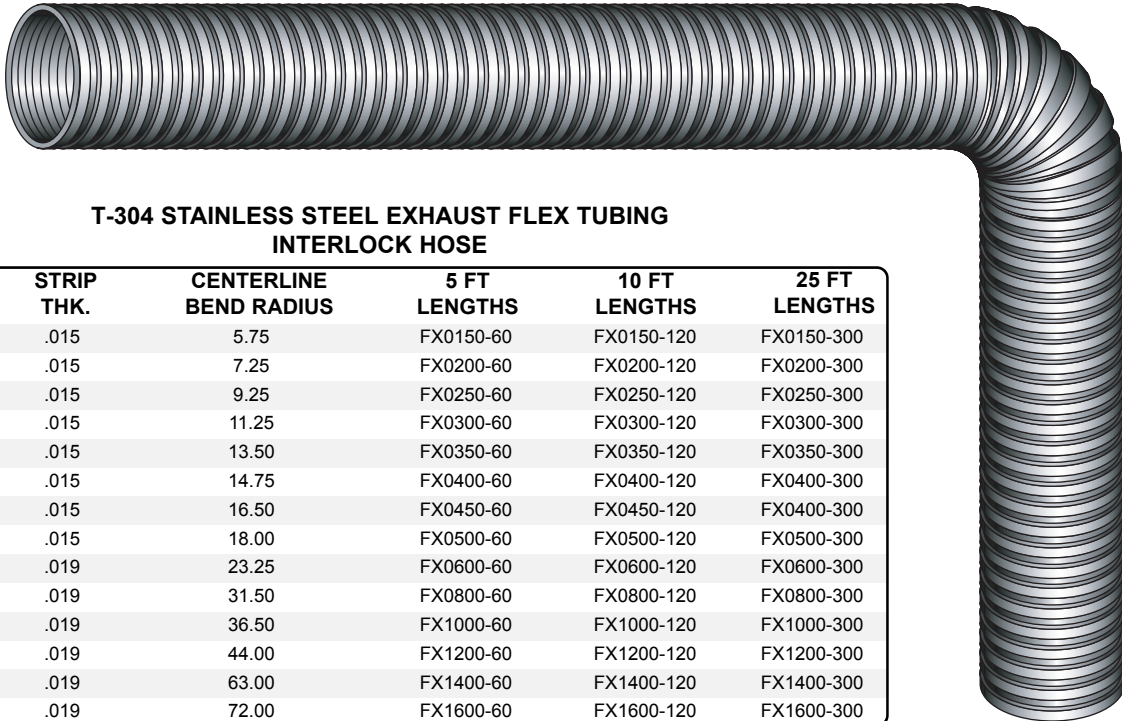


**CARBON STEEL EXHAUST TUBING**

TUBE O.D.	WALL THK.	5 FT LENGTHS	10 FT LENGTHS	20 FT LENGTHS
1-1/2"	.065	T0150-60	T0150-120	T0150-240
2"	.065	T0200-60	T0200-120	T0200-240
2-1/2"	.065	T0250-60	T0250-120	T0250-240
3"	.065	T0300-60	T0300-120	T0300-240
3-1/2"	.065	T0350-60	T0350-120	T0350-240
4"	.065	T0400-60	T0400-120	T0400-240
5"	.065	T0500-60	T0500-120	T0500-240
6"	.065	T0600-60	T0600-120	T0600-240
8"	.109	T0800-60	T0800-120	T0800-240
10"	.135	T1000-60	T1000-120	T1000-240
12"	.109	T1200-60	T1200-120	T1200-240
14"	.109	T1400-60	T1400-120	T1400-240
16"	.109	T1600-60	T1600-120	T1600-240
18"	.109	T1800-60	T1800-120	T1800-240
20"	.135	T2000-60	T2000-120	T2000-240
22"	.135	T2200-60	T2200-120	T2200-240
24"	.135	T2400-60	T2400-120	T2400-240

**T-304 STAINLESS STEEL EXHAUST TUBING**

TUBE O.D.	WALL THK.	5 FT LENGTHS	10 FT LENGTHS	20 FT LENGTHS
1-1/2"	.065	T0150-60H	T0150-120H	T0150-240H
2"	.065	T0200-60H	T0200-120H	T0200-240H
2-1/2"	.065	T0250-60H	T0250-120H	T0250-240H
3"	.065	T0300-60H	T0300-120H	T0300-240H
3-1/2"	.065	T0350-60H	T0350-120H	T0350-240H
4"	.065	T0400-60H	T0400-120H	T0400-240H
5"	.065	T0500-60H	T0500-120H	T0500-240H
6"	.065	T0600-60H	T0600-120H	T0600-240H
8"	.109	T0800-60H	T0800-120H	T0800-240H
10"	.109	T1000-60H	T1000-120H	T1000-240H
12"	.109	T1200-60H	T1200-120H	T1200-240H
14"	.109	T1400-60H	T1400-120H	T1400-240H
16"	.134	T1600-60H	T1600-120H	T1600-240H
18"	.134	T1800-60H	T1800-120H	T1800-240H
20"	.134	T2000-60H	T2000-120H	T2000-240H
22"	.134	T2200-60H	T2200-120H	T2200-240H
24"	.134	T2400-60H	T2400-120H	T2400-240H



**T-304 STAINLESS STEEL EXHAUST FLEX TUBING INTERLOCK HOSE**

FLEX I.D.	STRIP THK.	CENTERLINE BEND RADIUS	5 FT LENGTHS	10 FT LENGTHS	25 FT LENGTHS
1-1/2"	.015	5.75	FX0150-60	FX0150-120	FX0150-300
2"	.015	7.25	FX0200-60	FX0200-120	FX0200-300
2-1/2"	.015	9.25	FX0250-60	FX0250-120	FX0250-300
3"	.015	11.25	FX0300-60	FX0300-120	FX0300-300
3-1/2"	.015	13.50	FX0350-60	FX0350-120	FX0350-300
4"	.015	14.75	FX0400-60	FX0400-120	FX0400-300
4.1/2"	.015	16.50	FX0450-60	FX0450-120	FX0400-300
5"	.015	18.00	FX0500-60	FX0500-120	FX0500-300
6"	.019	23.25	FX0600-60	FX0600-120	FX0600-300
8"	.019	31.50	FX0800-60	FX0800-120	FX0800-300
10"	.019	36.50	FX1000-60	FX1000-120	FX1000-300
12"	.019	44.00	FX1200-60	FX1200-120	FX1200-300
14"	.019	63.00	FX1400-60	FX1400-120	FX1400-300
16"	.019	72.00	FX1600-60	FX1600-120	FX1600-300

Note: Interlock hose is not recommended for indoor use as it is not 100% gas tight.

Tubing can be cut to any length required. Change the 240 in the part number to the number of inches required.

Example: T0800-36 = 8" X 36" Carbon Steel Tube  
 FX0150-18 = 1-1/2" x 18" Stainless Steel Interlock Hose

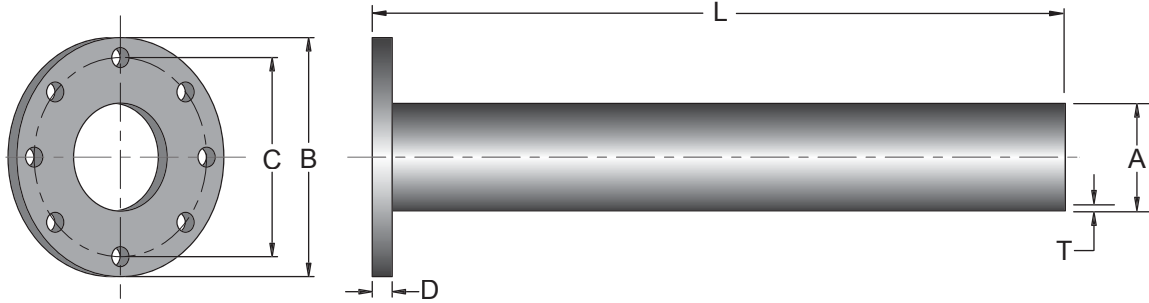


# PRE-FABRICATED EXHAUST SYSTEMS



## STYLE 60 - TUBE ASSEMBLY FLANGED ONE END

EXHAUST TUBE FACTORY WELDED TO 125/150# ANSI FLANGE ONE END

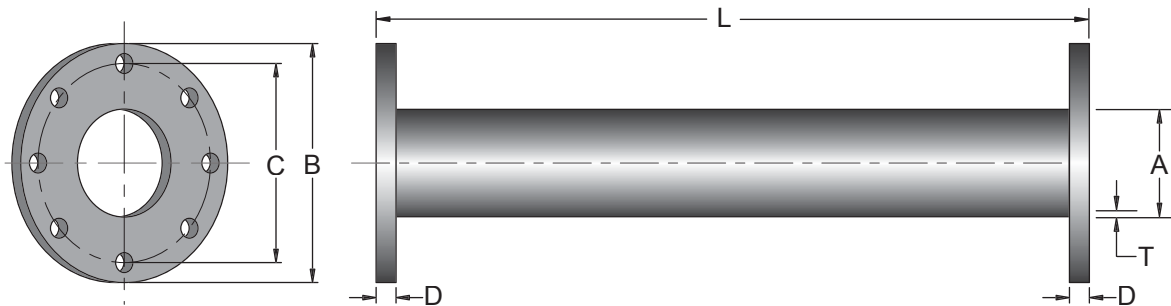


SIZE	CARBON STEEL TUBING WITH A 36 STEEL FLANGE					T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH 4" MINIMUM
	A	B	C	D	T	L = 120"	L = 240"	
3"	7.50	6.00	0.50	0.065	60-0300-120	60-0300-240	60-0300-120H	60-0300-240H
3-1/2"	8.50	7.00	0.50	0.065	60-0350-120	60-0350-240	60-0350-120H	60-0350-240H
4"	9.00	7.50	0.50	0.065	60-0400-120	60-0400-240	60-0400-120H	60-0400-240H
5"	10.00	8.50	0.50	0.065	60-0500-120	60-0500-240	60-0500-120H	60-0500-240H
6"	11.00	9.50	0.50	0.065	60-0600-120	60-0600-240	60-0600-120H	60-0600-240H
8"	13.50	11.75	0.50	0.105	60-0800-120	60-0800-240	60-0800-120H	60-0800-240H
10"	16.00	14.25	0.50	0.135	60-1000-120	60-1000-240	60-1000-120H	60-1000-240H
12"	19.00	17.00	0.50	0.105	60-1200-120	60-1200-240	60-1200-120H	60-1200-240H
14"	21.00	18.70	0.50	0.135	60-1400-120	60-1400-240	60-1400-120H	60-1400-240H
16"	23.50	21.25	0.50	0.135	60-1600-120	60-1600-240	60-1600-120H	60-1600-240H
18"	25.00	22.75	0.50	0.135	60-1800-120	60-1800-240	60-1800-120H	60-1800-240H
20"	27.50	25.00	0.50	0.135	60-2000-120	60-2000-240	60-2000-120H	60-2000-240H
22"	29.50	27.25	0.50	0.135	60-2200-120	60-2200-240	60-2200-120H	60-2200-240H
24"	32.00	29.50	0.50	0.135	60-2400-120	60-2400-240	60-2400-120H	60-2400-240H

Assemblies can be made in any length ±1/8" tolerance. Substitute the 120" or 240" with the required length.

## STYLE 61 - TUBE ASSEMBLY FLANGED EACH END

EXHAUST TUBE FACTORY WELDED TO 125/150# ANSI FLANGES EACH ENDS



SIZE	CARBON STEEL TUBING WITH A 36 STEEL FLANGE					T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH 4" MINIMUM
	A	B	C	D	T	L = 120"	L = 240"	
5"	10.00	8.50	0.50	0.065	61-0500-120	61-0500-240	61-0500-120H	61-0500-240H
6"	11.00	9.50	0.50	0.065	61-0600-120	61-0600-240	61-0600-120H	61-0600-240H
8"	13.50	11.75	0.50	0.105	61-0800-120	61-0800-240	61-0800-120H	61-0800-240H
10"	16.00	14.25	0.50	0.135	61-1000-120	61-1000-240	61-1000-120H	61-1000-240H
12"	19.00	17.00	0.50	0.105	61-1200-120	61-1200-240	61-1200-120H	61-1200-240H
14"	21.00	18.70	0.50	0.135	61-1400-120	61-1400-240	61-1400-120H	61-1400-240H
16"	23.50	21.25	0.50	0.135	61-1600-120	61-1600-240	61-1600-120H	61-1600-240H
18"	25.00	22.75	0.50	0.135	61-1800-120	61-1800-240	61-1800-120H	61-1800-240H
20"	27.50	25.00	0.50	0.135	61-2000-120	61-2000-240	61-2000-120H	61-2000-240H
22"	29.50	27.25	0.50	0.135	61-2200-120	61-2200-240	61-2200-120H	61-2200-240H
24"	32.00	29.50	0.50	0.135	61-2400-120	61-2400-240	61-2400-120H	61-2400-240H

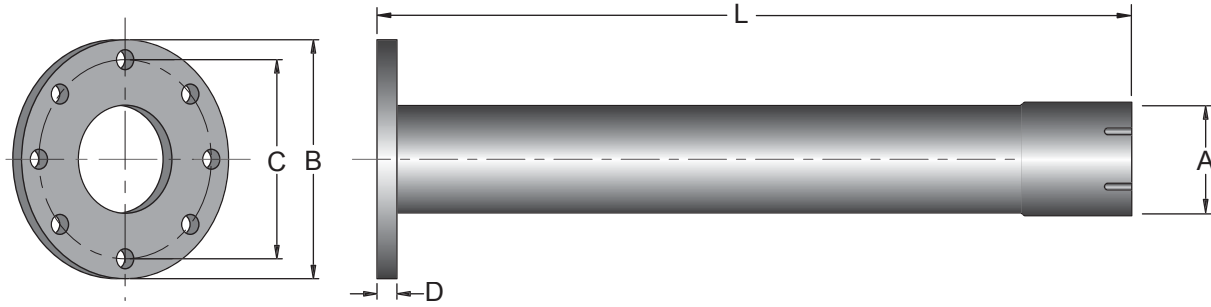
Assemblies can be made in any length ±1/8" tolerance. Substitute the 120" or 240" with the required length.

**NOTES:** Reducing Flanges Available on Request.  
Schedule 10 and Schedule 40 Pipe Assemblies can be Fabricated on Request.

# PRE-FABRICATED EXHAUST SYSTEMS

## STYLE 62 - FLANGED TUBE ASSEMBLY WITH INTEGRAL CUFF

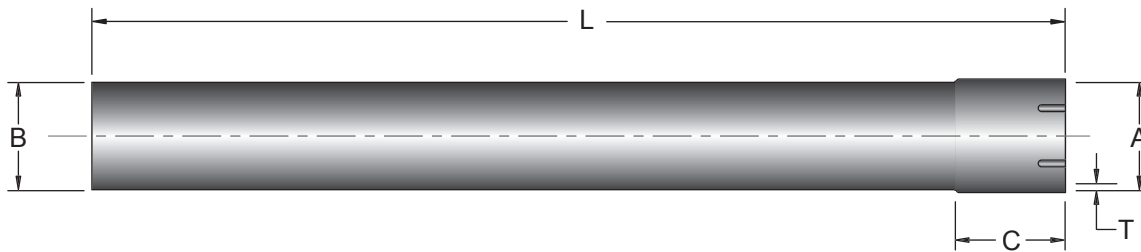
EXHAUST TUBE WITH INTEGRAL SLOTTED CUFF FACTORY WELDED TO 125/150# ANSI FLANGE



SIZE	CUFF I.D.				CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH 6" MINIMUM
	A	B	C	D	L = 120"	L = 240"	L = 120"	L = 240"	
2"	2.040	6.00	4.75	0.50	62-0200-120	62-0200-240	62-0200-120H	62-0200-240H	Assemblies can be made in any length $\pm 1/8"$ tolerance. Substitute the 120" or 240" with the required length.
2-1/2"	2.540	7.00	5.50	0.50	62-0250-120	62-0250-240	62-0250-120H	62-0250-240H	
3"	3.040	7.50	6.00	0.50	62-0300-120	62-0300-240	62-0300-120H	62-0300-240H	
3-1/2"	3.540	8.50	7.00	0.50	62-0350-120	62-0350-240	62-0350-120H	62-0350-240H	
4"	4.040	9.00	7.50	0.50	62-0400-120	62-0400-240	62-0400-120H	62-0400-240H	
5"	5.040	10.00	8.50	0.50	62-0500-120	62-0500-240	62-0500-120H	62-0500-240H	
6"	6.040	11.00	9.50	0.50	62-0600-120	62-0600-240	62-0600-120H	62-0600-240H	
8"	8.060	13.50	11.75	0.50	62-0800-120	62-0800-240	62-0800-120H	62-0800-240H	
10"	10.060	16.00	14.25	0.50	62-1000-120	62-1000-240	62-1000-120H	62-1000-240H	
12"	12.060	19.00	17.00	0.50	62-1200-120	62-1200-240	62-1200-120H	62-1200-240H	

## STYLE 63 - TUBE WITH INTEGRAL CUFF

EXHAUST TUBE WITH INTEGRAL SLOTTED CUFF ONE END.



SIZE	CUFF I.D.		TUBE O.D.		CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH 6" MINIMUM
	A	B	C	T	L = 120"	L = 240"	L = 120"	L = 240"	
2"	2.040	2.00	4.00	0.065	63-0200-120	63-0200-240	63-0200-120H	63-0200-240H	Assemblies can be made in any length $\pm 1/8"$ tolerance. Substitute the 120" or 240" with the required length.
2-1/2"	2.540	2.50	4.00	0.065	63-0250-120	63-0250-240	63-0250-120H	63-0250-240H	
3"	3.040	3.00	4.00	0.065	63-0300-120	63-0300-240	63-0300-120H	63-0300-240H	
3-1/2"	3.540	3.50	4.00	0.065	63-0350-120	63-0350-240	63-0350-120H	63-0350-240H	
4"	4.040	4.00	4.00	0.065	63-0400-120	63-0400-240	63-0400-120H	63-0400-240H	
5"	5.040	5.00	4.00	0.065	63-0500-120	63-0500-240	63-0500-120H	63-0500-240H	
6"	6.040	6.00	4.00	0.065	63-0600-120	63-0600-240	63-0600-120H	63-0600-240H	
8"	8.060	8.00	4.00	0.105	63-0800-120	63-0800-240	63-0800-120H	63-0800-240H	
10"	10.060	10.00	4.00	0.135	63-1000-120	63-1000-240	63-1000-120H	63-1000-240H	
12"	12.060	12.00	4.00	0.105	63-1200-120	63-1200-240	63-1200-120H	63-1200-240H	

**NOTES:** See Page 48 for Tube Wall Thickness.  
T-316 Stainless Steel Available

# DME INCORPORATED

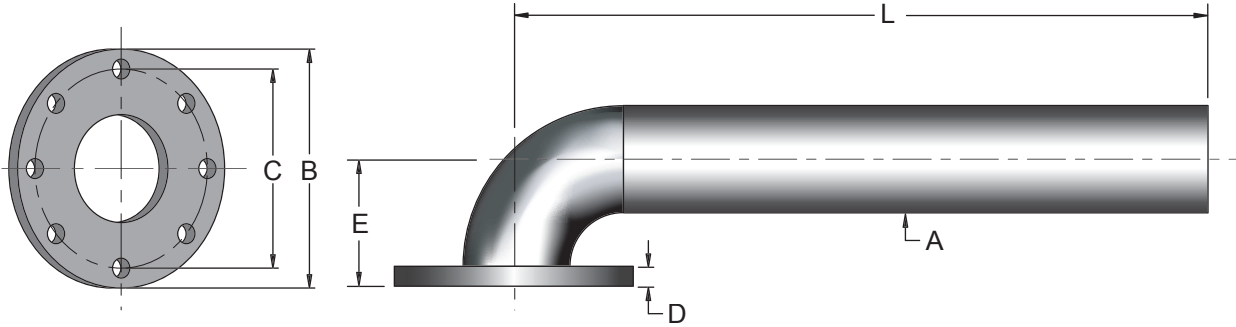


# PRE-FABRICATED EXHAUST SYSTEMS



## STYLE 64 - 90 DEGREE FLANGED TUBE ASSEMBLY

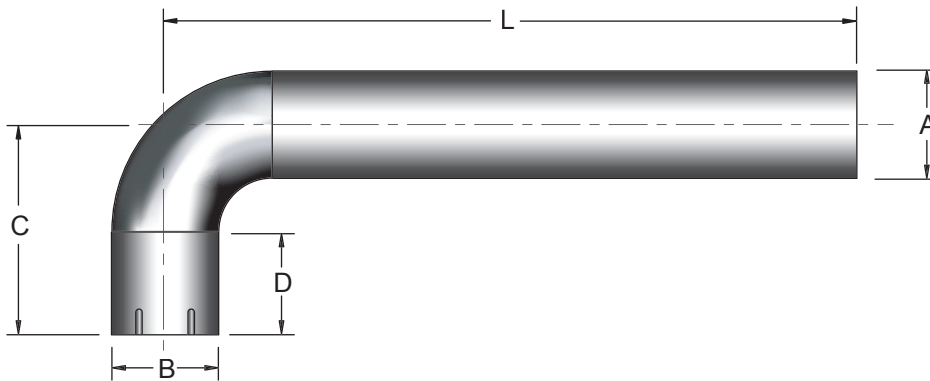
EXHAUST TUBE ASSEMBLY FACTORY WELDED TO SHORT RADIUS 90 DEGREE ELBOW AND 125/150# ANSI FLANGE



SIZE						CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH
	A	B	C	D	E	L = 120"	L = 240"	L = 120"	L = 240"	
3"	7.50	6.00	0.50	3.25		64-0300-120	64-0300-240	64-0300-120H	64-0300-240H	Assemblies can be made in any length $\pm 1/8"$ tolerance. Substitute the 120" or 240" with the required length.
3-1/2"	8.50	7.00	0.50	3.75		64-0350-120	64-0350-240	64-0350-120H	64-0350-240H	
4"	9.00	7.50	0.50	4.25		64-0400-120	64-0400-240	64-0400-120H	64-0400-240H	
5"	10.00	8.50	0.50	5.75		64-0500-120	64-0500-240	64-0500-120H	64-0500-240H	
6"	11.00	9.50	0.50	6.25		64-0600-120	64-0600-240	64-0600-120H	64-0600-240H	
8"	13.50	11.75	0.50	10.13		64-0800-120	64-0800-240	64-0800-120H	64-0800-240H	
10"	16.00	14.25	0.50	10.25		64-1000-120	64-1000-240	64-1000-120H	64-1000-240H	
12"	19.00	17.00	0.50	12.25		64-1200-120	64-1200-240	64-1200-120H	64-1200-240H	
14"	21.00	18.70	0.50	14.25		N/A	N/A	64-1400-120H	64-1400-240H	
16"	23.50	21.25	0.50	16.25		N/A	N/A	64-1600-120H	64-1600-240H	
18"	25.00	22.75	0.50	18.25		N/A	N/A	64-1800-120H	64-1800-240H	
20"	27.50	25.00	0.50	20.25		N/A	N/A	64-2000-120H	64-2000-240H	
22"	29.50	27.25	0.50	22.25		N/A	N/A	64-2200-120H	64-2200-240H	
24"	32.00	29.50	0.50	24.25		N/A	N/A	64-2400-120H	64-2400-240H	

## STYLE 65 - 90 DEGREE TUBE WITH CUFF ONE END

EXHAUST TUBE ASSEMBLY FACTORY WELDED TO SHORT RADIUS 90 DEGREE ELBOW AND SLOTTED CUFF



SIZE	CUFF I.D.				CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH
	A	B	C	D	L = 120"	L = 240"	L = 120"	L = 240"	
2"	2.040	6.00	4.00		65-0200-120	65-0200-240	65-0200-120H	65-0200-240H	Assemblies can be made in any length $\pm 1/8"$ tolerance. Substitute the 120" or 240" with the required length.
2-1/2"	2.540	6.50	4.00		65-0250-120	65-0250-240	65-0250-120H	65-0250-240H	
3"	3.040	7.00	4.00		65-0300-120	65-0300-240	65-0300-120H	65-0300-240H	
3-1/2"	3.540	7.50	4.00		65-0350-120	65-0350-240	65-0350-120H	65-0350-240H	
4"	4.040	8.00	4.00		65-0400-120	65-0400-240	65-0400-120H	65-0400-240H	
5"	5.040	9.50	4.00		65-0500-120	65-0500-240	65-0500-120H	65-0500-240H	
6"	6.040	10.00	4.00		65-0600-120	65-0600-240	65-0600-120H	65-0600-240H	
8"	8.060	13.88	4.00		65-0800-120	65-0800-240	65-0800-120H	65-0800-240H	
10"	10.060	14.00	4.00		65-1000-120	65-1000-240	65-1000-120H	65-1000-240H	
12"	12.060	16.00	4.00		65-1200-120	65-1200-240	65-1200-120H	65-1200-240H	

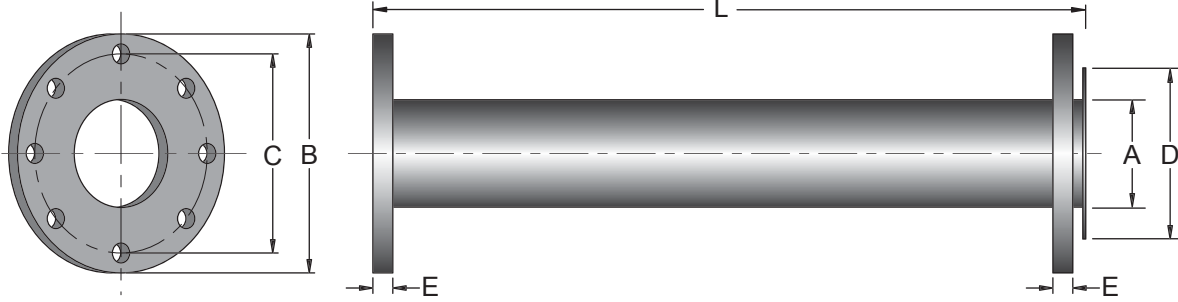
**NOTES:** See Page 48 for Tube Wall Thickness.  
T-316 Stainless Steel Available



# PRE-FABRICATED EXHAUST SYSTEMS

## STYLE 66 - TUBE ASSEMBLY WITH FIXED X FLOATING FLANGES

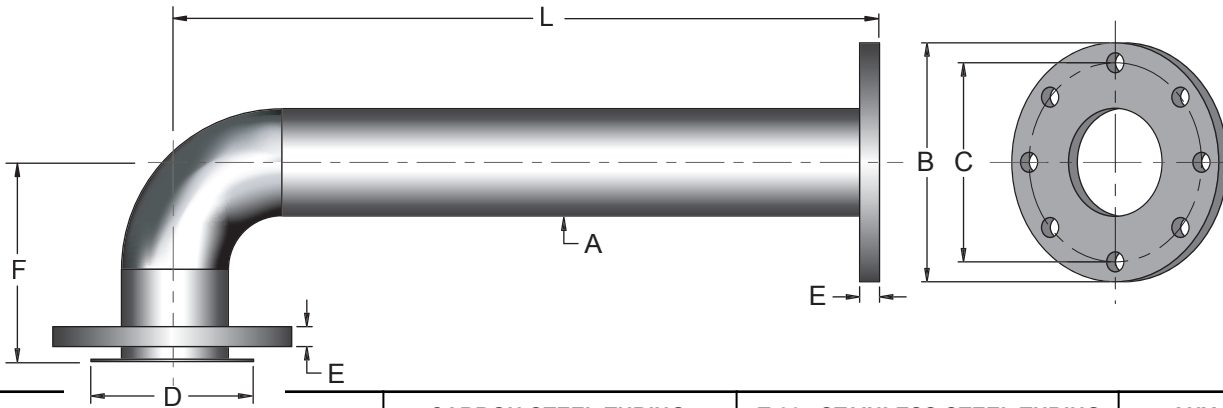
EXHAUST TUBE FACTORY WELDED WITH FIXED BY FLOATING 125/150# ANSI FLANGE



SIZE						CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH 4" MINIMUM
	A	B	C	D	E	L = 120"	L = 240"	L = 120"	L = 240"	
3"	7.50	6.00	5.00	0.50		66-0300-120	66-0300-240	66-0300-120H	66-0300-240H	Assemblies can be made in any length ±1/8" tolerance. Substitute the 120" or 240" with the required length.
3-1/2"	8.50	7.00	5.50	0.50		66-0350-120	66-0350-240	66-0350-120H	66-0350-240H	
4"	9.00	7.50	6.12	0.50		66-0400-120	66-0400-240	66-0400-120H	66-0400-240H	
5"	10.00	8.50	7.25	0.50		66-0500-120	66-0500-240	66-0500-120H	66-0500-240H	
6"	11.00	9.50	8.38	0.50		66-0600-120	66-0600-240	66-0600-120H	66-0600-240H	
8"	13.50	11.75	10.50	0.50		66-0800-120	66-0800-240	66-0800-120H	66-0800-240H	
10"	16.00	14.25	12.68	0.50		66-1000-120	66-1000-240	66-1000-120H	66-1000-240H	
12"	19.00	17.00	15.00	0.50		66-1200-120	66-1200-240	66-1200-120H	66-1200-240H	
14"	21.00	18.70	16.18	0.50		66-1400-120	66-1400-240	66-1400-120H	66-1400-240H	
16"	23.50	21.25	18.50	0.50		66-1600-120	66-1600-240	66-1600-120H	66-1600-240H	
18"	25.00	22.75	21.00	0.50		66-1800-120	66-1800-240	66-1800-120H	66-1800-240H	
20"	27.50	25.00	23.00	0.50		66-2000-120	66-2000-240	66-2000-120H	66-2000-240H	
22"	29.50	27.25	25.63	0.50		66-2200-120	66-2200-240	66-2200-120H	66-2200-240H	
24"	32.00	29.50	27.25	0.50		66-2400-120	66-2400-240	66-2400-120H	66-2400-240H	

## STYLE 67 - 90 DEGREE TUBE ASSEMBLY WITH FIXED X FLOATING FLANGES

EXHAUST TUBE ASSEMBLY FACTORY WELDED WITH SHORT RADIUS ELBOW AND FLOATING 125/150# ANSI FLANGE



SIZE							CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH
	A	B	C	D	E	F	L = 120"	L = 240"	L = 120"	L = 240"	
3"	7.50	6.00	5.00	0.50	7.00		67-0300-120	67-0300-240	67-0300-120H	67-0300-240H	Assemblies can be made in any length ±1/8" tolerance. Substitute the 120" or 240" with the required length.
3-1/2"	8.50	7.00	5.50	0.50	7.50		67-0350-120	67-0350-240	67-0350-120H	67-0350-240H	
4"	9.00	7.50	6.12	0.50	8.00		67-0400-120	67-0400-240	67-0400-120H	67-0400-240H	
5"	10.00	8.50	7.25	0.50	9.50		67-0500-120	67-0500-240	67-0500-120H	67-0500-240H	
6"	11.00	9.50	8.38	0.50	10.00		67-0600-120	67-0600-240	67-0600-120H	67-0600-240H	
8"	13.50	11.75	10.50	0.50	13.88		67-0800-120	67-0800-240	67-0800-120H	67-0800-240H	
10"	16.00	14.25	12.68	0.50	14.00		67-1000-120	67-1000-240	67-1000-120H	67-1000-240H	
12"	19.00	17.00	15.00	0.50	16.00		67-1200-120	67-1200-240	67-1200-120H	67-1200-240H	
14"	21.00	18.70	16.18	0.50	18.00		N/A	N/A	67-1400-120H	67-1400-240H	
16"	23.50	21.25	18.50	0.50	20.00		N/A	N/A	67-1600-120H	67-1600-240H	
18"	25.00	22.75	21.00	0.50	22.00		N/A	N/A	67-1800-120H	67-1800-240H	
20"	27.50	25.00	23.00	0.50	24.00		N/A	N/A	67-2000-120H	67-2000-240H	
22"	29.50	27.25	25.63	0.50	26.00		N/A	N/A	67-2200-120H	67-2200-240H	
24"	32.00	29.50	27.25	0.50	28.00		N/A	N/A	67-2400-120H	67-2400-240H	

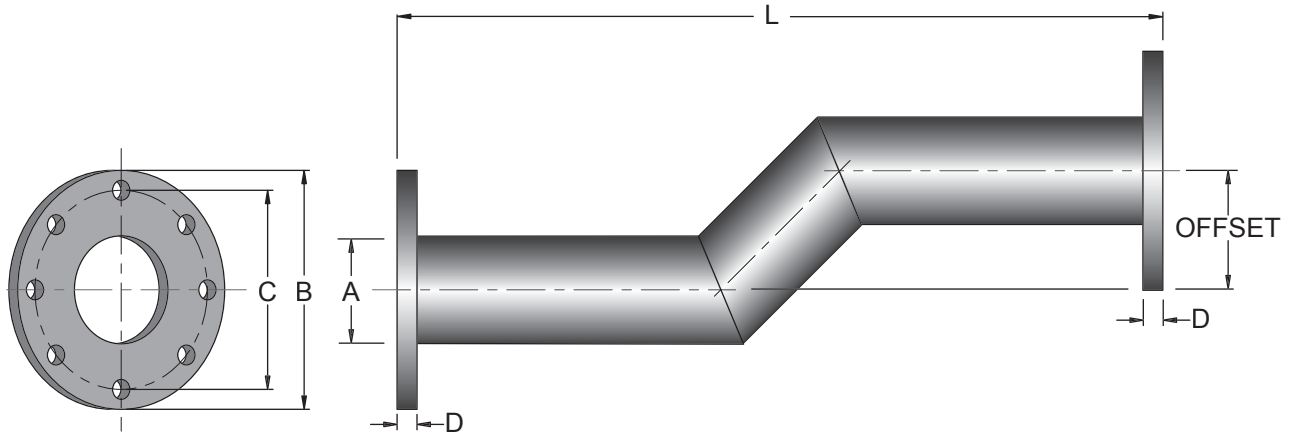


# PRE-FABRICATED EXHAUST SYSTEMS



## STYLE 68 - FLANGED OFFSET TUBE

EXHAUST OFFSET TUBE ASSEMBLY FACTORY WELDED WITH FIXED BY FIXED 125/150# ANSI FLANGE



SIZE						CARBON STEEL TUBING WITH A 36 STEEL FLANGE		T-304 STAINLESS STEEL TUBING WITH T-304 S/S FLANGE		ANY LENGTH
	A	B	C	D	OFFSET	L = 120"	L = 240"	L = 120"	L = 240"	
3"	7.50	6.00	0.50	SPECIFY	68-0300-120-	68-0300-240-	68-0300-120H-	68-0300-240H-	Assemblies can be made in any length ±1/8" tolerance. Substitute the 120" or 240" with the required length.	
3-1/2"	8.50	7.00	0.50	SPECIFY	68-0350-120-	68-0350-240-	68-0350-120H-	68-0350-240H-		
4"	9.00	7.50	0.50	SPECIFY	68-0400-120-	68-0400-240-	68-0400-120H-	68-0400-240H-		
5"	10.00	8.50	0.50	SPECIFY	68-0500-120-	68-0500-240-	68-0500-120H-	68-0500-240H-		
6"	11.00	9.50	0.50	SPECIFY	68-0600-120-	68-0600-240-	68-0600-120H-	68-0600-240H-		
8"	13.50	11.75	0.50	SPECIFY	68-0800-120-	68-0800-240-	68-0800-120H-	68-0800-240H-		
10"	16.00	14.25	0.50	SPECIFY	68-1000-120-	68-1000-240-	68-1000-120H-	68-1000-240H-		
12"	19.00	17.00	0.50	SPECIFY	68-1200-120-	68-1200-240-	68-1200-120H-	68-1200-240H-		
14"	21.00	18.70	0.50	SPECIFY	68-1400-120-	68-1400-240-	68-1400-120H-	68-1400-240H-		
16"	23.50	21.25	0.50	SPECIFY	68-1600-120-	68-1600-240-	68-1600-120H-	68-1600-240H-		
18"	25.00	22.75	0.50	SPECIFY	68-1800-120-	68-1800-240-	68-1800-120H-	68-1800-240H-		
20"	27.50	25.00	0.50	SPECIFY	68-2000-120-	68-2000-240-	68-2000-120H-	68-2000-240H-		
22"	29.50	27.25	0.50	SPECIFY	68-2200-120-	68-2200-240-	68-2200-120H-	68-2200-240H-		
24"	32.00	29.50	0.50	SPECIFY	68-2400-120-	68-2400-240-	68-2400-120H-	68-2400-240H-		

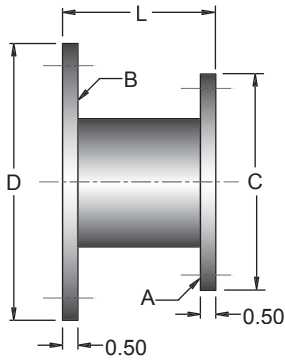
**NOTES:** Add Offset Dimension to the End of the Part Number.  
 See Page 48 for Tube Wall Thickness.  
 T-316 Stainless Steel Available.



# DME INCORPORATED

**913 - FLANGE X INCREASING FLANGE**

125/150# ANSI FIXED FLANGE  
TUBE / ROLLED CYLINDER  
125/150# ANSI FIXED FLANGE (LARGER)

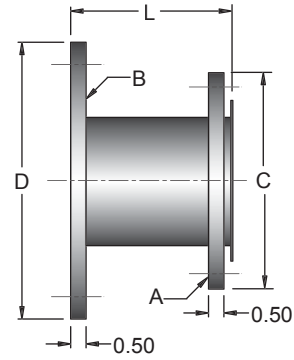


**NOTES:** See Page 31 For Flange Specifications.

Inlet Flanges can be Changed to Cat, Cummins, or Detroit Flanges.

**914 - FLOATING FLANGE X INCREASING FLANGE**

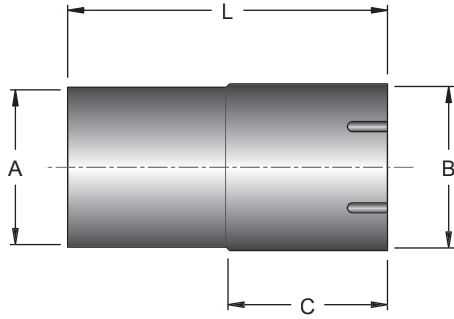
125/150# ANSI FLOATING FLANGE  
TUBE / ROLLED CYLINDER  
125/150# ANSI FIXED FLANGE (LARGER)



FLG. A	FLG. B	C	D	L	CARBON	
					STEEL	T-304 S/S
3"	4"	7.50	9.00	5.00	913-0300-4	913-0300-4H
3"	5"	7.50	10.00	5.00	913-0300-5	913-0300-5H
3"	6"	7.50	11.00	5.00	913-0300-6	913-0300-6H
3-1/2"	5"	8.50	10.00	5.00	913-0350-5	913-0350-5H
3-1/2"	6"	8.50	11.00	5.00	913-0350-6	913-0350-6H
3-1/2"	8"	8.50	13.50	5.00	913-0350-8	913-0350-8H
4"	5"	9.00	10.00	5.00	913-0400-5	913-0400-5H
4"	6"	9.00	11.00	5.00	913-0400-6	913-0400-6H
4"	8"	9.00	13.50	5.00	913-0400-8	913-0400-8H
5"	6"	10.00	11.00	5.00	913-0500-6	913-0500-6H
5"	8"	10.00	13.50	5.00	913-0500-8	913-0500-8H
5"	10"	10.00	16.00	5.00	913-0500-10	913-0500-10H
6"	8"	11.00	13.50	5.00	913-0600-8	913-0600-8H
6"	10"	11.00	16.00	5.00	913-0600-10	913-0600-10H
6"	12"	11.00	19.00	5.00	913-0600-12	913-0600-12H
8"	10"	13.50	16.00	5.00	913-0800-10	913-0800-10H
8"	12"	13.50	19.00	5.00	913-0800-12	913-0800-12H
8"	14"	13.50	21.00	5.00	913-0800-14	913-0800-14H
10"	12"	16.00	19.00	5.00	913-1000-12	913-1000-12H
10"	14"	16.00	21.00	5.00	913-1000-14	913-1000-14H
10"	16"	16.00	23.50	5.00	913-1000-16	913-1000-16H
12"	14"	19.00	21.00	5.00	913-1200-14	913-1200-14H
12"	16"	19.00	23.50	5.00	913-1200-16	913-1200-16H
12"	18"	19.00	25.00	5.00	913-1200-18	913-1200-18H
14"	16"	21.00	23.50	5.00	913-1400-16	913-1400-16H
14"	18"	21.00	25.00	5.00	913-1400-18	913-1400-18H
14"	20"	21.00	27.50	5.00	913-1400-20	913-1400-20H
16"	18"	23.50	25.00	5.00	913-1600-18	913-1600-18H
16"	20"	23.50	27.50	5.00	913-1600-20	913-1600-20H
16"	22"	23.50	29.50	5.00	913-1600-22	913-1600-22H
18"	20"	25.00	27.50	5.00	913-1800-20	913-1800-20H
18"	22"	25.00	29.50	5.00	913-1800-22	913-1800-22H
18"	24"	25.00	32.00	5.00	913-1800-24	913-1800-24H
20"	22"	27.50	29.50	5.00	913-2000-22	913-2000-22H
20"	24"	27.50	32.00	5.00	913-2000-24	913-2000-24H
20"	26"	27.50	34.25	5.00	913-2000-26	913-2000-26H
22"	24"	29.50	32.00	5.00	913-2200-24	913-2200-24H
22"	26"	29.50	34.25	5.00	913-2200-26	913-2200-26H
22"	28"	29.50	36.50	5.00	913-2200-28	913-2200-28H
24"	26"	32.00	34.25	5.00	913-2400-26	913-2400-26H
24"	28"	32.00	36.50	5.00	913-2400-28	913-2400-28H
24"	30"	32.00	38.75	5.00	913-2400-30	913-2400-30H

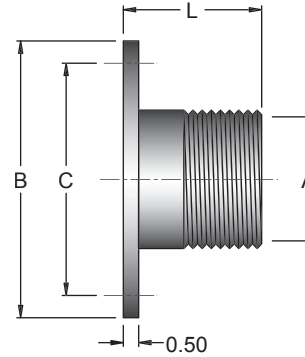
FLG. A	FLG. B	C	D	L	CARBON	
					STEEL	T-304 S/S
3"	4"	7.50	9.00	5.00	914-0300-4	914-0300-4H
3"	5"	7.50	10.00	5.00	914-0300-5	914-0300-5H
3"	6"	7.50	11.00	5.00	914-0300-6	914-0300-6H
3-1/2"	5"	8.50	10.00	5.00	914-0350-5	914-0350-5H
3-1/2"	6"	8.50	11.00	5.00	914-0350-6	914-0350-6H
3-1/2"	8"	8.50	13.50	5.00	914-0350-8	914-0350-8H
4"	5"	9.00	10.00	5.00	914-0400-5	914-0400-5H
4"	6"	9.00	11.00	5.00	914-0400-6	914-0400-6H
4"	8"	9.00	13.50	5.00	914-0400-8	914-0400-8H
5"	6"	10.00	11.00	5.00	914-0500-6	914-0500-6H
5"	8"	10.00	13.50	5.00	914-0500-8	914-0500-8H
5"	10"	10.00	16.00	5.00	914-0500-10	914-0500-10H
6"	8"	11.00	13.50	5.00	914-0600-8	914-0600-8H
6"	10"	11.00	16.00	5.00	914-0600-10	914-0600-10H
6"	12"	11.00	19.00	5.00	914-0600-12	914-0600-12H
8"	10"	13.50	16.00	5.00	914-0800-10	914-0800-10H
8"	12"	13.50	19.00	5.00	914-0800-12	914-0800-12H
8"	14"	13.50	21.00	5.00	914-0800-14	914-0800-14H
10"	12"	16.00	19.00	5.00	914-1000-12	914-1000-12H
10"	14"	16.00	21.00	5.00	914-1000-14	914-1000-14H
10"	16"	16.00	23.50	5.00	914-1000-16	914-1000-16H
12"	14"	19.00	21.00	5.00	914-1200-14	914-1200-14H
12"	16"	19.00	23.50	5.00	914-1200-16	914-1200-16H
12"	18"	19.00	25.00	5.00	914-1200-18	914-1200-18H
14"	16"	21.00	23.50	5.00	914-1400-16	914-1400-16H
14"	18"	21.00	25.00	5.00	914-1400-18	914-1400-18H
14"	20"	21.00	27.50	5.00	914-1400-20	914-1400-20H
16"	18"	23.50	25.00	5.00	914-1600-18	914-1600-18H
16"	20"	23.50	27.50	5.00	914-1600-20	914-1600-20H
16"	22"	23.50	29.50	5.00	914-1600-22	914-1600-22H
18"	20"	25.00	27.50	5.00	914-1800-20	914-1800-20H
18"	22"	25.00	29.50	5.00	914-1800-22	914-1800-22H
18"	24"	25.00	32.00	5.00	914-1800-24	914-1800-24H
20"	22"	27.50	29.50	5.00	914-2000-22	914-2000-22H
20"	24"	27.50	32.00	5.00	914-2000-24	914-2000-24H
20"	26"	27.50	34.25	5.00	914-2000-26	914-2000-26H
22"	24"	29.50	32.00	5.00	914-2200-24	914-2200-24H
22"	26"	29.50	34.25	5.00	914-2200-26	914-2200-26H
22"	28"	29.50	36.50	5.00	914-2200-28	914-2200-28H
24"	26"	32.00	34.25	5.00	914-2400-26	914-2400-26H
24"	28"	32.00	36.50	5.00	914-2400-28	914-2400-28H
24"	30"	32.00	38.75	5.00	914-2400-30	914-2400-30H

**901T - TUBE X SLOTTED CUFF (TUBE)**  
**901P - TUBE X SLOTTED CUFF (PIPE)**



SIZE	I.D.		L		
	A	B		CARBON STEEL	T-304 S/S
1-1/2"	1.540	4.00	8.00	901-0150T	901-0150HT
1-1/2"	1.940	4.00	8.00	901-0150P	901-0150HP
2"	2.040	4.00	8.00	901-0200T	901-0200HT
2"	2.415	4.00	8.00	901-0200P	901-0200HP
2-1/2"	2.540	4.00	8.00	901-0250T	901-0250HT
2-1/2"	2.915	4.00	8.00	901-0250P	901-0250HP
3"	3.040	4.00	8.00	901-0300T	901-0300HT
3"	3.540	4.00	8.00	901-0300P	901-0300HP
3-1/2"	3.540	4.00	8.00	901-0350T	901-0350HT
3-1/2"	4.040	4.00	8.00	901-0350P	901-0350HP
4"	4.040	4.00	8.00	901-0400T	901-0400HT
4"	4.540	4.00	8.00	901-0400P	901-0400HP
5"	5.040	4.00	8.00	901-0500T	901-0500HT
5"	5.603	4.00	8.00	901-0500P	901-0500HP
6"	6.040	4.00	8.00	901-0600T	901-0600HT
6"	6.665	4.00	8.00	901-0600P	901-0600HP
8"	8.060	4.00	8.00	901-0800T	901-0800HT
8"	8.685	4.00	8.00	901-0800P	901-0800HP
10"	10.060	6.00	12.00	901-1000T	901-1000HT
10"	10.810	6.00	12.00	901-1000P	901-1000HP
12"	12.060	6.00	12.00	901-1200T	901-1200HT
12"	12.810	6.00	12.00	901-1200P	901-1200HP

**903 - MALE NPT X FLANGE**

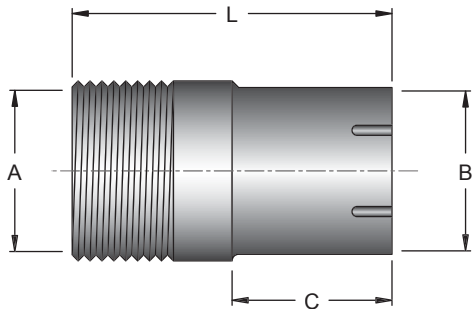


NPT	FLANGE		C	L	CARBON STEEL	
	A	SIZE			B	T-304 S/S
1-1/2"	1-1/2"	5.00	3.88	2.50	903-0150	903-0150H
1-1/2"	2"	6.00	4.75	2.50	903-0150-2	903-0150-2H
2"	2"	6.00	4.75	3.00	903-0200	903-0200H
2"	2-1/2"	7.00	5.50	3.00	903-0200-2.5	903-0200-2.5H
2-1/2"	2-1/2"	7.00	5.50	3.50	903-0250	903-0250H
2-1/2"	3"	7.50	6.00	3.50	903-0250-3	903-0250-3H
3"	3"	7.50	6.00	3.50	903-0300	903-0300H
3"	4"	9.00	7.50	3.50	903-0300-4	903-0300-4H
3-1/2"	4"	9.00	7.50	4.50	903-0350-4	903-0350-4H
3-1/2"	5"	10.00	8.50	4.50	903-0350-5	903-0350-5H
4"	4"	9.00	7.50	4.50	903-0400	903-0400H
4"	5"	10.00	8.50	4.50	903-0400-5	903-0400-5H
5"	5"	10.00	8.50	4.50	903-0500	903-0500H
5"	6"	11.00	9.50	4.50	903-0500-6	903-0500-6H
6"	6"	11.00	9.50	4.50	903-0600	903-0600H
6"	8"	13.50	11.75	4.50	903-0600-8	903-0600-8H
8"	8"	13.50	11.75	4.50	903-0800	903-0800H
8"	10"	16.00	14.25	4.50	903-0800-10	903-0800-10H

**NOTES:**

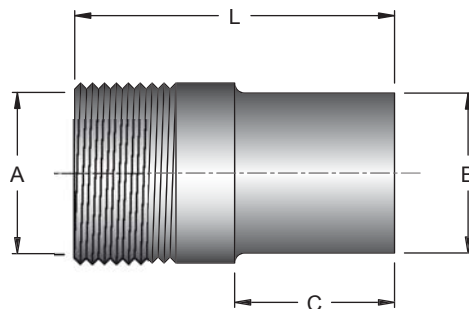
- Standard Flange 125/150# ANSI
- Add "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange, and "C" for Cat Inlet Flange to the End of the Part Number.

**902 - MALE NPT X SLOTTED CUFF (TUBE)**



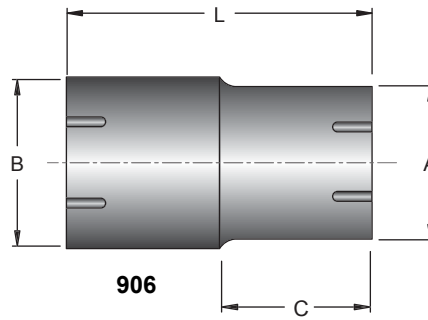
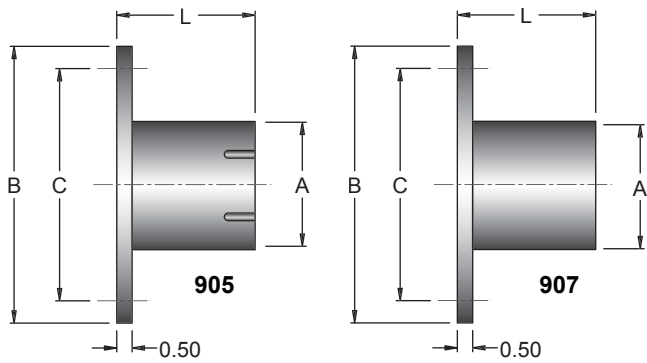
SIZE	I.D.		L		
	A	B		CARBON STEEL	T-304 S/S
1-1/2"	1.540	4.00	8.00	902-0150	902-0150H
2"	2.040	4.00	8.00	902-0200	902-0200H
2-1/2"	2.540	4.00	8.00	902-0250	902-0250H
3"	3.040	4.00	8.00	902-0300	902-0300H
3-1/2"	3.540	4.00	8.00	902-0350	902-0350H
4"	4.040	4.00	8.00	902-0400	902-0400H
5"	5.040	4.00	8.00	902-0500	902-0500H
6"	6.040	4.00	8.00	902-0600	902-0600H
8"	8.060	4.00	8.00	902-0800	902-0800H

**904 - MALE NPT X TUBE**



SIZE	I.D.		L		
	A	B		CARBON STEEL	T-304 S/S
1-1/2"	1.50	4.00	8.00	904-0150	904-0150H
2"	2.00	4.00	8.00	904-0200	904-0200H
2-1/2"	2.50	4.00	8.00	904-0250	904-0250H
3"	3.00	4.00	8.00	904-0300	904-0300H
3-1/2"	3.50	4.00	8.00	904-0350	904-0350H
4"	4.00	4.00	8.00	904-0400	904-0400H
5"	5.00	4.00	8.00	904-0500	904-0500H
6"	6.00	4.00	8.00	904-0600	904-0600H
8"	8.00	4.00	8.00	904-0800	904-0800H

# ADAPTERS



**905 - FLANGE X SLOTTED CUFF (PIPE AND TUBE SIZE)**

FLG. SIZE	CUFF				CARBON	
	A (I.D.)	B	C	L	STEEL	T-304 S/S
4"	3.040	9.00	7.50	4.50	905-0400-3T	905-0400-3HT
4"	3.540	9.00	7.50	4.50	905-0400-3P	905-0400-3HP
4"	4.040	9.00	7.50	4.50	905-0400-4T	905-0400-4HT
4"	4.540	9.00	7.50	4.50	905-0400-4P	905-0400-4HP
5"	4.040	10.00	8.50	4.50	905-0500-4T	905-0500-4HT
5"	4.540	10.00	8.50	4.50	905-0500-4P	905-0500-4HP
5"	5.040	10.00	8.50	4.50	905-0500-5T	905-0500-5HT
5"	5.603	10.00	8.50	4.50	905-0500-5P	905-0500-5HP
6"	5.040	11.00	9.50	4.50	905-0600-5T	905-0600-5HT
6"	5.603	11.00	9.50	4.50	905-0600-5P	905-0600-5HP
6"	6.040	11.00	9.50	4.50	905-0600-6T	905-0600-6HT
6"	6.665	11.00	9.50	4.50	905-0600-6P	905-0600-6HP
8"	6.040	13.50	11.75	4.50	905-0800-6T	905-0800-6HT
8"	6.665	13.50	11.75	4.50	905-0800-6P	905-0800-6HP
8"	8.060	13.50	11.75	4.50	905-0800-8T	905-0800-8HT
8"	8.685	13.50	11.75	4.50	905-0800-8P	905-0800-8HP
10"	8.060	16.00	14.25	4.50	905-1000-8T	905-1000-8HT
10"	8.685	16.00	14.25	4.50	905-1000-8P	905-1000-8HP
10"	10.060	16.00	14.25	4.50	905-1000-10T	905-1000-10HT
10"	10.810	16.00	14.25	4.50	905-1000-10P	905-1000-10HP
12"	10.060	19.00	17.00	4.50	905-1200-10T	905-1200-10HT
12"	10.810	19.00	17.00	4.50	905-1200-10P	905-1200-10HP
12"	12.060	19.00	17.00	4.50	905-1200-12T	905-1200-12HT
12"	12.810	19.00	17.00	4.50	905-1200-12P	905-1200-12HP

**907 - FLANGE X TUBE**

FLG. SIZE	TUBE				CARBON	
	A (O.D.)	B	C	L	STEEL	T-304 S/S
4"	3.00	9.00	7.50	4.50	907-0400-3	907-0400-3H
4"	4.00	9.00	7.50	4.50	907-0400	907-0400H
5"	4.00	10.00	8.50	4.50	907-0500-4	907-0500-4H
5"	5.00	10.00	8.50	4.50	907-0500	907-0500H
6"	5.00	11.00	9.50	4.50	907-0600-5	907-0600-5H
6"	6.00	11.00	9.50	4.50	907-0600	907-0600H
8"	6.00	13.50	11.75	4.50	907-0800-6	907-0800-6H
8"	8.00	13.50	11.75	4.50	907-0800	907-0800H
10"	8.00	16.00	14.25	4.50	907-1000-8	907-1000-8H
10"	10.00	16.00	14.25	4.50	907-1000-	907-1000H
12"	10.00	19.00	17.00	4.50	907-1200-10	907-1200-10H
12"	12.00	19.00	17.00	4.50	907-1200	907-1200H

**906 - SLOTTED CUFF X SLOTTED CUFF (PIPE & TUBE)**

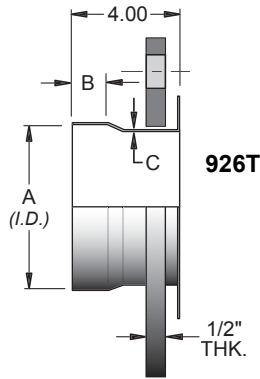
A (I.D.)	B (I.D.)	C	L	C/S	T-304 S/S
3.040	3.040	4.00	8.00	906-0300	906-0300H
3.040	4.040	4.00	8.00	906-0300-4T	906-0300-4HT
3.540	3.540	4.00	8.00	906-0350	906-0350H
3.540	4.040	4.00	8.00	906-0350-4T	906-0350-4HT
4.040	4.040	4.00	8.00	906-0400	906-0400H
4.040	4.540	4.00	8.00	906-0400-4P	906-0400-4HP
4.040	5.040	4.00	8.00	906-0400-5T	906-0400-5HT
4.540	4.540	4.00	8.00	906-0450	906-0450H
4.540	5.040	4.00	8.00	906-0450-5T	906-0450-5HT
5.040	5.040	4.00	8.00	906-0500	906-0500H
5.040	5.603	4.00	8.00	906-0500-5P	906-0500-5HP
5.040	6.040	4.00	8.00	906-0500-6T	906-0500-6HT
5.603	5.603	4.00	8.00	906-0556	906-0556H
5.603	6.040	4.00	8.00	906-0556-6T	906-0556-6HT
6.040	6.040	4.00	8.00	906-0600	906-0600H
6.040	6.665	4.00	8.00	906-0600-6P	906-0600-6HP
6.040	8.060	4.00	8.00	906-0600-8T	906-0600-8HT
6.665	6.665	4.00	8.00	906-0663	906-0663H
6.665	8.060	4.00	8.00	906-0663-8T	906-0663-8HT
8.060	8.060	4.00	8.00	906-0800	906-0800H
8.060	8.685	4.00	8.00	906-0800-8P	906-0800-8HP
8.060	10.060	4.00	8.00	906-0800-10T	906-0800-10HT
8.685	8.685	4.00	8.00	906-0863	906-0863H
8.685	10.060	4.00	8.00	906-0863-10T	906-0863-10HT
10.060	10.060	4.00	8.00	906-1000	906-1000H
10.060	10.810	4.00	8.00	906-1000-10P	906-1000-10HP
10.060	12.060	4.00	8.00	906-1000-12T	906-1000-12HT
10.810	10.810	4.00	8.00	906-1075	906-1075H
10.810	12.060	4.00	8.00	906-1075-12T	906-1075-12HT
12.060	12.060	4.00	8.00	906-1200	906-1200H
12.060	12.810	4.00	8.00	906-1200-12P	906-1200-12HP
12.060	14.060	4.00	8.00	906-1200-14P	906-1200-14HP
12.810	12.810	4.00	8.00	906-1275	906-1275H
12.810	14.060	4.00	8.00	906-1275-14P	906-1275-14HP

**NOTES:**

- Standard Flange 125/150# ANSI
- Add "U" for Cummins Inlet Flange, "D" for Detroit Inlet Flange, and "C" for Cat Inlet Flange to the End of the Part Number.

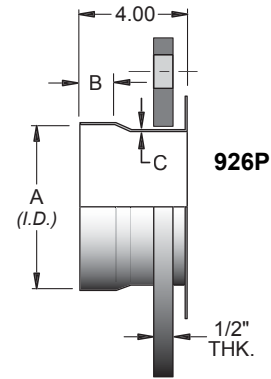
**926T - VANSTONE FLANGES (TUBE SIZE)**

125-150# ANSI FLANGE, 1/2" THK. PER B16.5 SPECS.  
T-321 STAINLESS STEEL TUBE SIZE VANSTONE STUB



**926P - VANSTONE FLANGES (PIPE SIZE)**

125-150# ANSI FLANGE, 1/2" THK. PER B16.5 SPECS.  
T-321 STAINLESS STEEL PIPE SIZE VANSTONE STUB

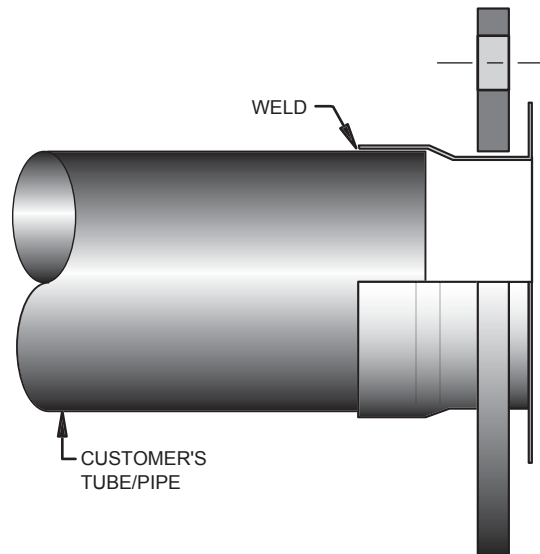


FLG. SIZE	A	B	C	C/S FLANGE	T-304 S/S FLANGE
2"	2.04	1.50	0.050	926-0200T	926-0200HT
2-1/2"	2.54	1.50	0.050	926-0250T	926-0250HT
3"	3.04	1.50	0.050	926-0300T	926-0300HT
3-1/2"	3.54	1.50	0.050	926-0350T	926-0350HT
4"	4.04	1.50	0.050	926-0400T	926-0400HT
5"	5.04	1.50	0.050	926-0500T	926-0500HT
6"	6.04	1.50	0.050	926-0600T	926-0600HT
8"	8.06	1.50	0.062	926-0800T	926-0800HT
10"	10.06	1.50	0.062	926-1000T	926-1000HT
12"	12.06	1.50	0.062	926-1200T	926-1200HT
14"	14.06	1.50	0.062	926-1400T	926-1400HT
16"	16.06	1.50	0.062	926-1600T	926-1600HT
18"	18.06	1.50	0.062	926-1800T	926-1800HT
20"	20.06	1.50	0.074	926-2000T	926-2000HT
22"	22.06	1.50	0.074	926-2200T	926-2200HT
24"	24.06	1.50	0.074	926-2400T	926-2400HT

FLG. SIZE	A	B	C	C/S FLANGE	T-304 S/S FLANGE
2"	2.42	1.50	0.050	926-0200P	926-0200HP
2-1/2"	2.92	1.50	0.050	926-0250P	926-0250HP
3"	3.54	1.50	0.050	926-0300P	926-0300HP
3-1/2"	4.04	1.50	0.050	926-0350P	926-0350HP
4"	4.54	1.50	0.050	926-0400P	926-0400HP
5"	5.62	1.50	0.050	926-0500P	926-0500HP
6"	6.67	1.50	0.050	926-0600P	926-0600HP
8"	8.67	1.50	0.062	926-0800P	926-0800HP
10"	10.81	1.50	0.062	926-1000P	926-1000HP
12"	12.81	1.50	0.062	926-1200P	926-1200HP
14"	14.06	1.50	0.062	926-1400P	926-1400HP
16"	16.06	1.50	0.062	926-1600P	926-1600HP
18"	18.06	1.50	0.062	926-1800P	926-1800HP
20"	20.06	1.50	0.074	926-2000P	926-2000HP
22"	22.06	1.50	0.074	926-2200P	926-2200HP
24"	24.06	1.50	0.074	926-2400P	926-2400HP

**NOTES:**

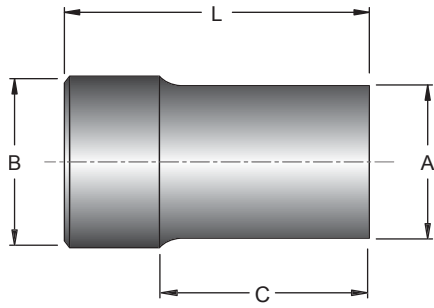
- Standard Vanstone Stub Ends are 18 Gauge T-321 Stainless Steel.
- Heavier Gauge Materials are Available.
- T-304 S/S, T-316 S/S and Inconel 625 Vanstones are Available on Request.





# ADAPTERS

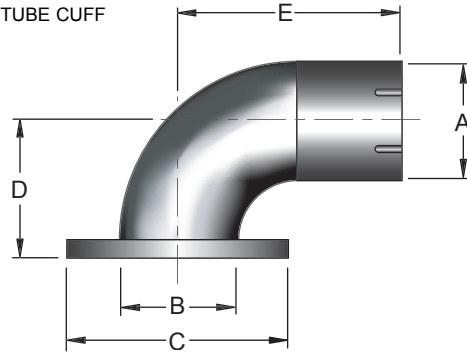
## 908 - PIPE WELD END X TUBE



A (O.D.)	B (O.D.)	C	L	C/S	T-304 S/S
3.00	3.50	4.00	6.00	908-0300-3P	908-0300-3HP
3.50	4.50	4.00	6.00	908-0350-4P	908-0350-4HP
4.00	4.50	4.00	6.00	908-0400-4P	908-0400-4HP
4.00	5.56	4.00	6.00	908-0400-5P	908-0400-5HP
5.00	5.56	4.00	6.00	908-0500-5P	908-0500-5HP
5.00	6.63	4.00	6.00	908-0500-6P	908-0500-6HP
6.00	6.63	4.00	6.00	908-0600-6P	908-0600-6HP
6.00	8.63	4.00	6.00	908-0600-8P	908-0600-8HP
8.00	8.63	4.00	6.00	908-0800-8P	908-0800-8HP
8.00	10.75	4.00	6.00	908-0800-10P	908-0800-10HP
10.00	10.75	4.00	6.00	908-1000-10P	908-1000-10HP
10.00	12.75	4.00	6.00	908-1000-12P	908-1000-12HP
12.00	12.75	4.00	6.00	908-1200-12P	908-1200-12HP
12.00	14.00	4.00	6.00	908-1200-14P	908-1200-14HP

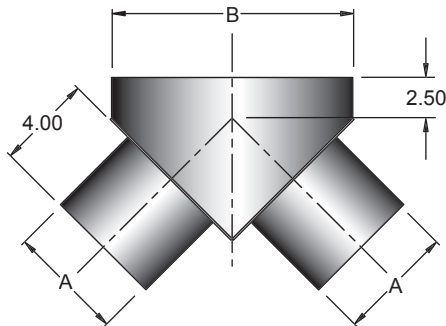
## 923 - FLANGED ELBOW X SLOTTED CUFF (TUBE)

125/150# ANSI FIXED FLANGE  
90 DEGREE TUBE ELBOW  
SLOTTED TUBE CUFF

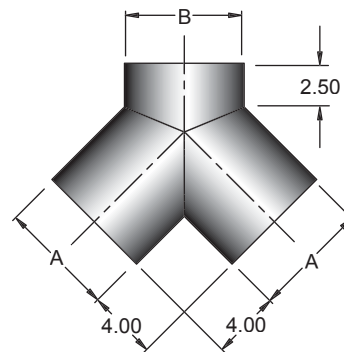


I.D.	FLG.		CARBON STEEL					T-304 S/S
	A	B	C	D	E			
2.540"	2-1/2"	7.00	2.75	6.50	923-0250	923-0250H		
3.040"	3"	7.50	3.25	7.00	923-0300	923-0300H		
3.540"	3-1/2"	8.50	3.75	7.50	923-0350	923-0350H		
4.040"	4"	9.00	4.25	8.00	923-0400	923-0400H		
5.040"	5"	10.00	5.75	9.00	923-0500	923-0500H		
6.040"	6"	11.00	6.25	10.00	923-0600	923-0600H		
8.060"	8"	13.50	10.13	13.88	923-0800	923-0800H		
10.060"	10"	16.00	11.25	14.00	923-1000	923-1000H		
12.060"	12"	19.00	12.25	16.00	923-1200	923-1200H		

## 924 - WYE COLLECTOR



## 925 - TRUE WYE COLLECTOR



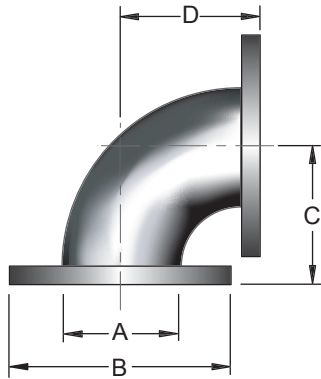
924 INLET TUBE O.D. "A"	OUTLET TUBE O.D. "B"								
	SIZE	PART NUMBER		SIZE	PART NUMBER		SIZE	PART NUMBER	
		CARBON STEEL	T-304 S/S		CARBON STEEL	T-304 S/S		CARBON STEEL	T-304 S/S
3	4	924-0300-4	924-0300-4H	5	924-0300-5	924-0300-5H	6	924-0300-6	924-0300-6H
3-1/2	5	924-0350-5	924-0350-5H	6	924-0350-6	924-0350-6H	8	924-0350-8	924-0350-8H
4	5	924-0400-5	924-0400-5H	6	924-0400-6	924-0400-6H	8	924-0400-8	924-0400-8H
5	6	924-0500-6	924-0500-6H	8	924-0500-8	924-0500-8H	10	924-0500-10	924-0500-10H
6	8	924-0600-8	924-0600-8H	10	924-0600-10	924-0600-10H	12	924-0600-12	924-0600-12H
8	10	924-0800-10	924-0800-10H	12	924-0800-12	924-0800-12H	14	924-0800-14	924-0800-14H
10	12	924-1000-12	924-1000-12H	14	924-1000-14	924-1000-14H	16	924-1000-16	924-1000-16H
12	14	924-1200-14	924-1200-14H	16	924-1200-16	924-1200-16H	18	924-1200-18	924-1200-18H

925 INLET TUBE O.D. "A"	"B"	PART NUMBER	
		C/S	T-304 S/S
3	3	925-0300	924-0300H
3-1/2	3-1/2	925-0350	924-0350H
4	4	925-0400	924-0400H
5	5	925-0500	924-0500H
6	6	925-0600	924-0600H
8	8	925-0800	924-0800H
10	10	925-1000	924-1000H
12	12	925-1200	924-1200H



**TYPE 919 - FLANGED ELBOW EACH ENDS**

90 DEGREE SHORT RADIUS ELBOW WITH 150# DRILLED ANSI FIXED FLANGES

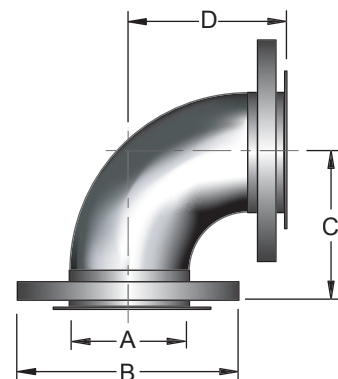


**SHORT RADIUS**

SIZE					CARBON	T-304
	A	B	C	D	STEEL	S/S
3"	7.50	3.25	5.50	919-0300	919-0300H	
3-1/2"	8.50	3.75	6.00	919-0350	919-0350H	
4"	9.00	4.25	6.50	919-0400	919-0400H	
5"	10.00	5.75	8.00	919-0500	919-0500H	
6"	11.00	6.25	6.25	919-0600	919-0600H	
8"	13.50	10.13	10.13	919-0800	919-0800H	
10"	16.00	11.25	11.25	919-1000	919-1000H	
12"	19.00	12.25	12.25	919-1200	919-1200H	
14"	21.00	14.25	14.25	N/A	919-1400H	
16"	23.50	16.25	16.25	N/A	919-1600H	
18"	25.00	18.25	18.25	N/A	919-1800H	
20"	27.50	20.25	20.25	N/A	919-2000H	
22"	29.50	22.25	22.25	N/A	919-2200H	
24"	32.00	24.25	24.25	N/A	919-2400H	

**TYPE 921 - FLANGED ELBOW EACH ENDS**

90 DEGREE SHORT RADIUS ELBOW WITH 150# DRILLED ANSI FLOATING FLANGES



**SHORT RADIUS**

SIZE					CARBON	T-304
	A	B	C	D	STEEL	S/S
3"	7.50	5.00	5.00	921-0300	921-0300H	
3-1/2"	8.50	5.50	5.50	921-0350	921-0350H	
4"	9.00	6.00	6.00	921-0400	921-0400H	
5"	10.00	7.50	7.50	921-0500	921-0500H	
6"	11.00	8.00	8.00	921-0600	921-0600H	
8"	13.50	10.00	10.00	921-0800	921-0800H	
10"	16.00	13.00	13.00	921-1000	921-1000H	
12"	19.00	14.00	14.00	921-1200	921-1200H	
14"	21.00	16.00	16.00	N/A	921-1400H	
16"	23.50	18.00	18.00	N/A	921-1600H	
18"	25.00	20.00	20.00	N/A	921-1800H	
20"	27.50	22.00	22.00	N/A	921-2000H	
22"	29.50	24.00	24.00	N/A	921-2200H	
24"	32.00	26.00	26.00	N/A	921-2400H	

**TYPE 920 - FLANGED ELBOW EACH ENDS**

90 DEGREE LONG RADIUS ELBOW WITH 150# DRILLED ANSI FIXED FLANGES

**LONG RADIUS**

SIZE					CARBON	T-304
	A	B	C	D	STEEL	S/S
3"	7.50	6.25	6.25	920-0300	920-0300H	
3-1/2"	8.50	7.25	7.25	920-0350	920-0350H	
4"	9.00	8.25	8.25	920-0400	920-0400H	
5"	10.00	10.25	10.25	920-0500	920-0500H	
6"	11.00	12.25	12.25	920-0600	920-0600H	
8"	13.50	12.25	12.25	N/A	920-0800H	
10"	16.00	15.25	15.25	N/A	920-1000H	
12"	19.00	18.25	18.25	N/A	920-1200H	
14"	21.00	21.25	21.25	N/A	920-1400H	
16"	23.50	24.25	24.25	N/A	920-1600H	
18"	25.00	27.25	27.25	N/A	920-1800H	
20"	27.50	30.25	30.25	N/A	920-2000H	
22"	29.50	33.25	33.25	N/A	920-2200H	
24"	32.00	36.25	36.25	N/A	920-2400H	

**TYPE 922 - FLANGED ELBOW EACH ENDS**

90 DEGREE LONG RADIUS ELBOW WITH 150# DRILLED ANSI FLOATING FLANGES

**LONG RADIUS**

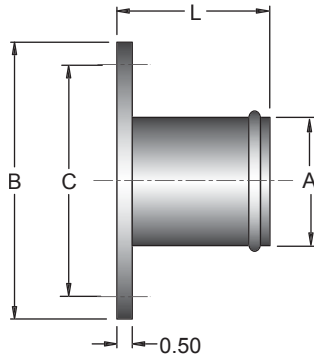
SIZE					CARBON	T-304
	A	B	C	D	STEEL	S/S
3"	7.50	8.00	8.00	922-0300	922-0300H	
3-1/2"	8.50	9.00	9.00	922-0350	922-0350H	
4"	9.00	10.00	10.00	922-0400	922-0400H	
5"	10.00	12.00	12.00	922-0500	922-0500H	
6"	11.00	14.00	14.00	922-0600	922-0600H	
8"	13.50	14.00	14.00	N/A	922-0800H	
10"	16.00	17.00	17.00	N/A	922-1000H	
12"	19.00	20.00	20.00	N/A	922-1200H	
14"	21.00	23.00	23.00	N/A	922-1400H	
16"	23.50	26.00	26.00	N/A	922-1600H	
18"	25.00	29.00	29.00	N/A	922-1800H	
20"	27.50	32.00	32.00	N/A	922-2000H	
22"	29.50	35.00	35.00	N/A	922-2200H	
24"	32.00	38.00	38.00	N/A	922-2400H	

- NOTES:**
- See Page 44 for Wall Thickness of Elbows.
  - Flanges are 1/2" Thick.
  - Caterpillar, Cummins, Detroit and Other Special Flanges are Also Available.

# RADIATOR ADAPTERS

## 915 - FLANGE X BEADED TUBE

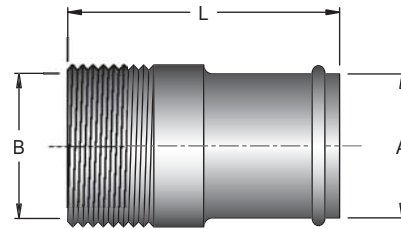
125/150# ANSI FIXED FLANGE ONE END  
A 36 CARBON STEEL BEADED TUBE OTHER END



A O.D.	B	C	L	PART NUMBER CARBON STEEL
1-1/2"	5.00	3.88	4.00	915-0150
1-3/4"	5.00	3.88	4.00	915-0175
1-7/8"	5.00	3.88	4.00	915-0188
2"	6.00	4.75	4.00	915-0200
2-1/4"	6.00	4.75	4.00	915-0225
2-3/8"	6.00	4.75	4.00	915-0238
2-1/2"	7.00	5.50	4.00	915-0250
2-7/8"	7.00	5.50	4.00	915-0288
3"	7.50	6.00	4.00	915-0300
3-1/2"	7.50	6.00	4.00	915-0350
4"	9.00	7.50	4.00	915-0400
4-1/2"	9.00	7.50	4.00	915-0450
5"	10.00	8.50	4.00	915-0500
5-9/16"	10.00	8.50	4.00	915-0556
6"	11.00	9.50	4.00	915-0600
6-5/8"	11.00	9.50	4.00	915-0663

## 916 - BEADED TUBE X MALE NPT

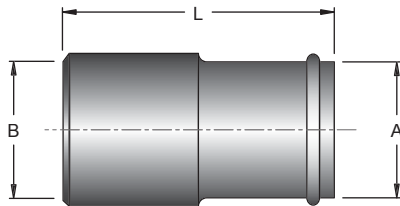
A 36 CARBON STEEL BEADED TUBE ONE END  
CARBON STEEL MALE NPT OTHER END



TUBE SIZE A	NPT SIZE B	L	PART NUMBER CARBON STEEL
1-1/2"	1-1/2"	6.00	916-0150
1-3/4"	1-1/2"	6.00	916-0175
1-7/8"	1-1/2"	6.00	916-0188
2"	2"	6.50	916-0200
2-1/4"	2"	6.50	916-0225
2-3/8"	2"	6.50	916-0238
2-1/2"	2-1/2"	7.00	916-0250
2-7/8"	2-1/2"	7.00	916-0288
3"	3"	7.00	916-0300
3-1/2"	3"	7.00	916-0350
4"	4"	8.00	916-0400
4-1/2"	4"	8.00	916-0450
5"	5"	8.00	916-0500
5-9/16"	5"	8.00	916-0556
6"	6"	8.00	916-0600
6-5/8"	6"	8.00	916-0663

## 917 - BEADED TUBE X WELD END

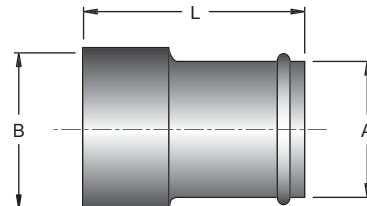
A 36 CARBON STEEL BEADED TUBE ONE END  
CARBON STEEL BEVELED SHED. 40 PIPE OTHER END.



TUBE SIZE A	PIPE SIZE B	L	PART NUMBER CARBON STEEL
1-1/2"	1-1/2"	6.00	917-0150
1-3/4"	1-1/2"	6.00	917-0175
1-7/8"	1-1/2"	6.00	917-0188
2"	2"	6.50	917-0200
2-1/4"	2"	6.50	917-0225
2-3/8"	2"	6.50	917-0238
2-1/2"	2-1/2"	7.00	917-0250
2-7/8"	2-1/2"	7.00	917-0288
3"	3"	7.00	917-0300
3-1/2"	3"	7.00	917-0350
4"	4"	8.00	917-0400
4-1/2"	4"	8.00	917-0450
5"	5"	8.00	917-0500
5-9/16"	5"	8.00	917-0556
6"	6"	8.00	917-0600
6-5/8"	6"	8.00	917-0663

## 918 - BEADED TUBE X FEMALE NPT

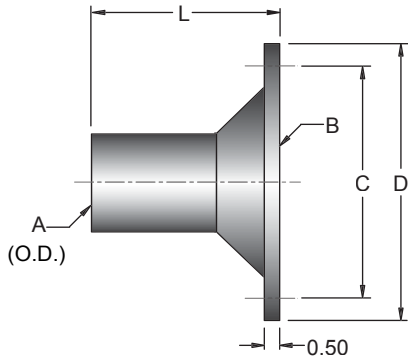
A 36 CARBON STEEL BEADED TUBE ONE END  
CARBON STEEL FEMALE NPT OTHER END



TUBE SIZE A	PIPE SIZE B	L	PART NUMBER CARBON STEEL
1-1/2"	1-1/2"	5.00	918-0150
1-3/4"	1-1/2"	5.00	918-0175
1-7/8"	1-1/2"	5.00	918-0188
2"	2"	5.00	918-0200
2-1/4"	2"	5.00	918-0225
2-3/8"	2"	5.00	918-0238
2-1/2"	2-1/2"	5.50	918-0250
2-7/8"	2-1/2"	5.50	918-0288
3"	3"	5.75	918-0300
3-1/2"	3"	5.75	918-0350
4"	4"	6.00	918-0400
4-1/2"	4"	6.00	918-0450
5"	5"	6.00	918-0500
5-9/16"	5"	6.00	918-0556
6"	6"	6.00	918-0600
6-5/8"	6"	6.00	918-0663

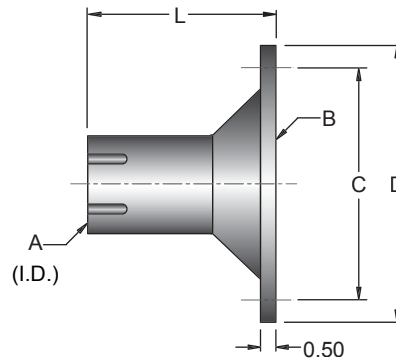
**909 - FLANGE X TUBE END**

TUBE WITH CONE TRANSITION ONE END  
125/150# ANSI FIXED FLANGE OTHER END.



**910 - FLANGE X SLOTTED CUFF**

SLOTTED CUFF WITH CONE TRANSITION ONE END  
125/150# ANSI FIXED FLANGE OTHER END.



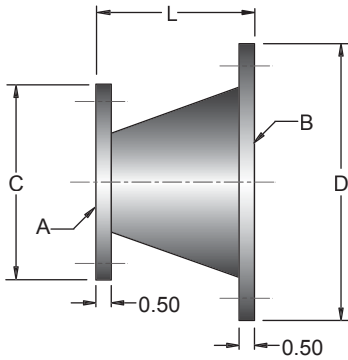
TUBE	FLG.		CARBON				
	A	B	C	D	L	STEEL	T-304 S/S
3"	4"	7.50	9.00	9.00	9.00	909-0300-4	909-0300-4H
3"	5"	8.50	10.00	10.00	9.00	909-0300-5	909-0300-5H
3"	6"	9.50	11.00	11.00	9.00	909-0300-6	909-0300-6H
3-1/2"	5"	8.50	10.00	9.00	9.00	909-0350-5	909-0350-5H
3-1/2"	6"	9.50	11.00	10.00	9.00	909-0350-6	909-0350-6H
3-1/2"	8"	11.75	13.50	11.00	9.00	909-0350-8	909-0350-8H
4"	5"	8.50	10.00	9.00	9.00	909-0400-5	909-0400-5H
4"	6"	9.50	11.00	10.00	9.00	909-0400-6	909-0400-6H
4"	8"	11.75	13.50	11.00	9.00	909-0400-8	909-0400-8H
5"	6"	9.50	11.00	9.00	9.00	909-0500-6	909-0500-6H
5"	8"	11.75	13.50	10.00	9.00	909-0500-8	909-0500-8H
5"	10"	14.25	16.00	11.00	9.00	909-0500-10	909-0500-10H
6"	8"	11.75	13.50	9.00	9.00	909-0600-8	909-0600-8H
6"	10"	14.25	16.00	10.00	9.00	909-0600-10	909-0600-10H
6"	12"	17.00	19.00	11.00	9.00	909-0600-12	909-0600-12H
8"	10"	14.25	16.00	9.00	9.00	909-0800-10	909-0800-10H
8"	12"	17.00	19.00	10.00	9.00	909-0800-12	909-0800-12H
8"	14"	18.70	21.00	11.00	9.00	909-0800-14	909-0800-14H
10"	12"	17.00	19.00	9.00	9.00	909-1000-12	909-1000-12H
10"	14"	18.70	21.00	10.00	9.00	909-1000-14	909-1000-14H
10"	16"	21.25	23.50	11.00	9.00	909-1000-16	909-1000-16H
12"	14"	18.70	21.00	9.00	9.00	909-1200-14	909-1200-14H
12"	16"	21.25	23.50	10.00	9.00	909-1200-16	909-1200-16H
12"	18"	22.75	25.00	11.00	9.00	909-1200-18	909-1200-18H
14"	16"	21.25	23.50	9.00	9.00	909-1400-16	909-1400-16H
14"	18"	22.75	25.00	10.00	9.00	909-1400-18	909-1400-18H
14"	20"	25.00	27.50	11.00	9.00	909-1400-20	909-1400-20H
16"	18"	22.75	25.00	9.00	9.00	909-1600-18	909-1600-18H
16"	20"	25.00	27.50	10.00	9.00	909-1600-20	909-1600-20H
16"	22"	27.25	29.50	11.00	9.00	909-1600-22	909-1600-22H
18"	20"	25.00	27.50	9.00	9.00	909-1800-20	909-1800-20H
18"	22"	27.25	29.50	10.00	9.00	909-1800-22	909-1800-22H
18"	24"	29.50	32.00	11.00	9.00	909-1800-24	909-1800-24H
20"	22"	27.25	29.50	9.00	9.00	909-2000-22	909-2000-22H
20"	24"	29.50	32.00	10.00	9.00	909-2000-24	909-2000-24H
20"	26"	31.75	34.25	11.00	9.00	909-2000-26	909-2000-26H
22"	24"	29.50	32.00	9.00	9.00	909-2200-24	909-2200-24H
22"	26"	31.75	34.25	10.00	9.00	909-2200-26	909-2200-26H
22"	28"	34.00	36.50	11.00	9.00	909-2200-28	909-2200-28H
24"	26"	31.75	34.25	9.00	9.00	909-2400-26	909-2400-26H
24"	28"	34.00	36.50	10.00	9.00	909-2400-28	909-2400-28H
24"	30"	36.00	38.75	11.00	9.00	909-2400-30	909-2400-30H

CUFF	FLG.		CARBON				
	A	B	C	D	L	STEEL	T-304 S/S
3.040"	4"	7.50	9.00	9.00	9.00	910-0300-4	910-0300-4H
3.040"	5"	8.50	10.00	10.00	9.00	910-0300-5	910-0300-5H
3.040"	6"	9.50	11.00	11.00	9.00	910-0300-6	910-0300-6H
3.540"	4"	7.50	9.00	9.00	9.00	910-0350-4	910-0350-4H
3.540"	5"	8.50	10.00	10.00	9.00	910-0350-5	910-0350-5H
3.540"	6"	9.50	11.00	11.00	9.00	910-0350-6	910-0350-6H
4.040"	5"	8.50	10.00	9.00	9.00	910-0400-5	910-0400-5H
4.040"	6"	9.50	11.00	10.00	9.00	910-0400-6	910-0400-6H
4.040"	8"	11.75	13.50	11.00	9.00	910-0400-8	910-0400-8H
4.540"	5"	8.50	10.00	9.00	9.00	910-0450-5	910-0450-5H
4.540"	6"	9.50	11.00	10.00	9.00	910-0450-6	910-0450-6H
4.540"	8"	11.75	13.50	11.00	9.00	910-0450-8	910-0450-8H
5.040"	6"	9.50	11.00	9.00	9.00	910-0500-6	910-0500-6H
5.040"	8"	11.75	13.50	10.00	9.00	910-0500-8	910-0500-8H
5.040"	10"	14.25	16.00	11.00	9.00	910-0500-10	910-0500-10H
5.603"	6"	9.50	11.00	9.00	9.00	910-0556-6	910-0556-6H
5.603"	8"	11.75	13.50	10.00	9.00	910-0556-8	910-0556-8H
5.603"	10"	14.25	16.00	11.00	9.00	910-0556-10	910-0556-10H
6.040"	8"	11.75	13.50	9.00	9.00	910-0600-8	910-0600-8H
6.040"	10"	14.25	16.00	10.00	9.00	910-0600-10	910-0600-10H
6.040"	12"	17.00	19.00	11.00	9.00	910-0600-12	910-0600-12H
6.665"	8"	11.75	13.50	9.00	9.00	910-0663-8	910-0663-8H
6.665"	10"	14.25	16.00	10.00	9.00	910-0663-10	910-0663-10H
6.665"	12"	17.00	19.00	11.00	9.00	910-0663-12	910-0663-12H
8.060"	10"	14.25	16.00	9.00	9.00	910-0800-10	910-0800-10H
8.060"	12"	17.00	19.00	10.00	9.00	910-0800-12	910-0800-12H
8.060"	14"	18.70	21.00	11.00	9.00	910-0800-14	910-0800-14H
8.685"	10"	14.25	16.00	9.00	9.00	910-0863-10	910-0863-10H
8.685"	12"	17.00	19.00	10.00	9.00	910-0863-12	910-0863-12H
8.685"	14"	18.70	21.00	11.00	9.00	910-0863-14	910-0863-14H
10.060"	12"	17.00	19.00	9.00	9.00	910-1000-12	910-1000-12H
10.060"	14"	18.70	21.00	10.00	9.00	910-1000-14	910-1000-14H
10.060"	16"	21.25	23.50	11.00	9.00	910-1000-16	910-1000-16H
10.810"	12"	17.00	19.00	9.00	9.00	910-1075-12	910-1075-12H
10.810"	14"	18.70	21.00	10.00	9.00	910-1075-14	910-1075-14H
10.810"	16"	21.25	23.50	11.00	9.00	910-1075-16	910-1075-16H
12.060"	14"	18.70	21.00	9.00	9.00	910-1200-14	910-1200-14H
12.060"	16"	21.25	23.50	10.00	9.00	910-1200-16	910-1200-16H
12.060"	18"	22.75	25.00	11.00	9.00	910-1200-18	910-1200-18H
12.810"	14"	18.70	21.00	9.00	9.00	910-1275-14	910-1275-14H
12.810"	16"	21.25	23.50	10.00	9.00	910-1275-16	910-1275-16H
12.810"	18"	22.75	25.00	11.00	9.00	910-1275-18	910-1275-18H

# ADAPTERS

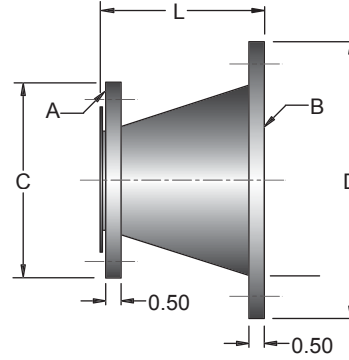
## 911 - FIXED FLANGE X CONE X FIXED FLANGE

125/150# ANSI FIXED FLANGE  
 CONE TRANSITION  
 125/150# ANSI FIXED FLANGE (LARGER)



## 912 - FLOATING FLANGE X CONE X FIXED FLANGE

125/150# ANSI FLOATING FLANGE  
 CONE TRANSITION  
 125/150# ANSI FIXED FLANGE, (LARGER)



FLG. A	FLG. B	C	D	L	CARBON	
					STEEL	T-304 S/S
3"	4"	7.50	9.00	4.00	911-0300-4	911-0300-4H
3"	5"	7.50	10.00	5.00	911-0300-5	911-0300-5H
3"	6"	7.50	11.00	6.00	911-0300-6	911-0300-6H
3-1/2"	5"	8.50	10.00	4.00	911-0350-5	911-0350-5H
3-1/2"	6"	8.50	11.00	5.00	911-0350-6	911-0350-6H
3-1/2"	8"	8.50	13.50	6.00	911-0350-8	911-0350-8H
4"	5"	9.00	10.00	4.00	911-0400-5	911-0400-5H
4"	6"	9.00	11.00	5.00	911-0400-6	911-0400-6H
4"	8"	9.00	13.50	6.00	911-0400-8	911-0400-8H
5"	6"	10.00	11.00	4.00	911-0500-6	911-0500-6H
5"	8"	10.00	13.50	5.00	911-0500-8	911-0500-8H
5"	10"	10.00	16.00	6.00	911-0500-10	911-0500-10H
6"	8"	11.00	13.50	4.00	911-0600-8	911-0600-8H
6"	10"	11.00	16.00	5.00	911-0600-10	911-0600-10H
6"	12"	11.00	19.00	6.00	911-0600-12	911-0600-12H
8"	10"	13.50	16.00	4.00	911-0800-10	911-0800-10H
8"	12"	13.50	19.00	5.00	911-0800-12	911-0800-12H
8"	14"	13.50	21.00	6.00	911-0800-14	911-0800-14H
10"	12"	16.00	19.00	4.00	911-1000-12	911-1000-12H
10"	14"	16.00	21.00	5.00	911-1000-14	911-1000-14H
10"	16"	16.00	23.50	6.00	911-1000-16	911-1000-16H
12"	14"	19.00	21.00	4.00	911-1200-14	911-1200-14H
12"	16"	19.00	23.50	5.00	911-1200-16	911-1200-16H
12"	18"	19.00	25.00	6.00	911-1200-18	911-1200-18H
14"	16"	21.00	23.50	4.00	911-1400-16	911-1400-16H
14"	18"	21.00	25.00	5.00	911-1400-18	911-1400-18H
14"	20"	21.00	27.50	6.00	911-1400-20	911-1400-20H
16"	18"	23.50	25.00	4.00	911-1600-18	911-1600-18H
16"	20"	23.50	27.50	5.00	911-1600-20	911-1600-20H
16"	22"	23.50	29.50	6.00	911-1600-22	911-1600-22H
18"	20"	25.00	27.50	4.00	911-1800-20	911-1800-20H
18"	22"	25.00	29.50	5.00	911-1800-22	911-1800-22H
18"	24"	25.00	32.00	6.00	911-1800-24	911-1800-24H
20"	22"	27.50	29.50	4.00	911-2000-22	911-2000-22H
20"	24"	27.50	32.00	5.00	911-2000-24	911-2000-24H
20"	26"	27.50	34.25	6.00	911-2000-26	911-2000-26H
22"	24"	29.50	32.00	4.00	911-2200-24	911-2200-24H
22"	26"	29.50	34.25	5.00	911-2200-26	911-2200-26H
22"	28"	29.50	36.50	6.00	911-2200-28	911-2200-28H
24"	26"	32.00	34.25	4.00	911-2400-26	911-2400-26H
24"	28"	32.00	36.50	5.00	911-2400-28	911-2400-28H
24"	30"	32.00	38.75	6.00	911-2400-30	911-2400-30H

FLG. A	FLG. B	C	D	L	CARBON	
					STEEL	T-304 S/S
3"	4"	7.50	9.00	4.00	912-0300-4	912-0300-4H
3"	5"	7.50	10.00	5.00	912-0300-5	912-0300-5H
3"	6"	7.50	11.00	6.00	912-0300-6	912-0300-6H
3-1/2"	5"	8.50	10.00	4.00	912-0350-5	912-0350-5H
3-1/2"	6"	8.50	11.00	5.00	912-0350-6	912-0350-6H
3-1/2"	8"	8.50	13.50	6.00	912-0350-8	912-0350-8H
4"	5"	9.00	10.00	4.00	912-0400-5	912-0400-5H
4"	6"	9.00	11.00	5.00	912-0400-6	912-0400-6H
4"	8"	9.00	13.50	6.00	912-0400-8	912-0400-8H
5"	6"	10.00	11.00	4.00	912-0500-6	912-0500-6H
5"	8"	10.00	13.50	5.00	912-0500-8	912-0500-8H
5"	10"	10.00	16.00	6.00	912-0500-10	912-0500-10H
6"	8"	11.00	13.50	4.00	912-0600-8	912-0600-8H
6"	10"	11.00	16.00	5.00	912-0600-10	912-0600-10H
6"	12"	11.00	19.00	6.00	912-0600-12	912-0600-12H
8"	10"	13.50	16.00	4.00	912-0800-10	912-0800-10H
8"	12"	13.50	19.00	5.00	912-0800-12	912-0800-12H
8"	14"	13.50	21.00	6.00	912-0800-14	912-0800-14H
10"	12"	16.00	19.00	4.00	912-1000-12	912-1000-12H
10"	14"	16.00	21.00	5.00	912-1000-14	912-1000-14H
10"	16"	16.00	23.50	6.00	912-1000-16	912-1000-16H
12"	14"	19.00	21.00	4.00	912-1200-14	912-1200-14H
12"	16"	19.00	23.50	5.00	912-1200-16	912-1200-16H
12"	18"	19.00	25.00	6.00	912-1200-18	912-1200-18H
14"	16"	21.00	23.50	4.00	912-1400-16	912-1400-16H
14"	18"	21.00	25.00	5.00	912-1400-18	912-1400-18H
14"	20"	21.00	27.50	6.00	912-1400-20	912-1400-20H
16"	18"	23.50	25.00	4.00	912-1600-18	912-1600-18H
16"	20"	23.50	27.50	5.00	912-1600-20	912-1600-20H
16"	22"	23.50	29.50	6.00	912-1600-22	912-1600-22H
18"	20"	25.00	27.50	4.00	912-1800-20	912-1800-20H
18"	22"	25.00	29.50	5.00	912-1800-22	912-1800-22H
18"	24"	25.00	32.00	6.00	912-1800-24	912-1800-24H
20"	22"	27.50	29.50	4.00	912-2000-22	912-2000-22H
20"	24"	27.50	32.00	5.00	912-2000-24	912-2000-24H
20"	26"	27.50	34.25	6.00	912-2000-26	912-2000-26H
22"	24"	29.50	32.00	4.00	912-2200-24	912-2200-24H
22"	26"	29.50	34.25	5.00	912-2200-26	912-2200-26H
22"	28"	29.50	36.50	6.00	912-2200-28	912-2200-28H
24"	26"	32.00	34.25	4.00	912-2400-26	912-2400-26H
24"	28"	32.00	36.50	5.00	912-2400-28	912-2400-28H
24"	30"	32.00	38.75	6.00	912-2400-30	912-2400-30H

# DME INCORPORATED

# S/S BRAIDED HOSE SPECIFICATIONS

## BUTT WELDED ANNULAR CORRUGATED HOSE - SINGLE BRAID

Nominal Hose I.D. In Inches	Product Part Number	Approx. Weight Per Ft.*	Nominal Hose O.D. In Inches	Braid Layers	Minimum Centerline Bend Radius In Inches		Max. ** Working Pressure @ 70°F	Max. Test Pressure @ 70°F	Nominal Burst Pressure @ 70°F
					Dynamic	Static			
1/4"	DMH0025-21	0.17	0.57	1	5.00	1.00	2,562	3,846	10,250
3/8"	DMH0038-21	0.25	0.74	1	5.50	1.25	1,848	2,772	7,391
1/2"	DMH0050-21	0.34	0.89	1	6.00	1.50	1,075	1,613	4,301
3/4"	DMH0075-21	0.59	1.28	1	8.00	2.25	792	1,188	3,168
1"	DMH0100-21	0.75	1.58	1	9.00	2.75	571	857	2,285
1-1/4"	DMH0125-21	1.07	1.93	1	10.50	3.50	531	797	2,125
1-1/2"	DMH0150-21	1.23	2.28	1	12.00	4.00	472	708	1,887
2"	DMH0200-21	1.73	2.61	1	15.00	5.00	518	778	2,074
2-1/2"	DMH0250-21	1.86	3.33	1	20.00	8.00	387	581	1,548
3"	DMH0300-21	2.00	3.88	1	22.00	9.00	316	474	1,264
4"	DMH0400-21	2.68	4.98	1	27.00	13.00	232	348	927
5"	DMH0500-21	2.60	6.03	1	31.00	18.00	191	286	754
6"	DMH0600-21	4.75	7.10	1	36.00	19.00	150	225	600
8"	DMH0800-21	9.44	9.19	1	33.50	29.50	234	350	934
10"	DMH1000-21	12.90	11.32	1	37.50	33.50	230	344	918
12"	DMH1200-21	14.83	13.37	1	55.50	47.50	161	241	643

\* Weight per foot will vary according to Material Type, Metal Thickness, and Convolution Count.

- Braid is T-304 Stainless Steel.
- Metal Hose is T-321 Stainless Steel.
- Special High Pressure Hose is Available Upon Request.
- For T-316L Stainless Steel Hose, Add "E" at the End of the Part Number.
- All Braided Hose Assemblies are Pressure Tested to insure a Leak Tight Installation.

### TEMPERATURE CORRECTION FACTORS

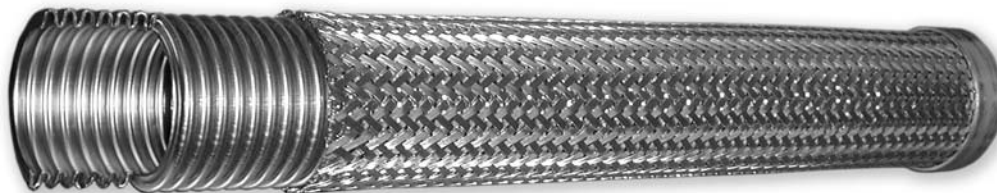
Temperature In Degrees F.	Material				
	Bronze	Steel	Monel	304 Stainless	321 / 316 ELC Stainless
ROOM TEMP.	1.00	1.00	1.00	1.00	1.00
150	0.92	0.99	0.93	0.96	0.97
200	0.89	0.97	0.90	0.92	0.94
250	0.86	0.96	0.87	0.91	0.92
300	0.83	0.93	0.83	0.86	0.88
350	0.81	0.91	0.82	0.85	0.86
400	0.78	0.87	0.79	0.82	0.83
450	0.75	0.86	0.77	0.80	0.81
500		0.81	0.73	0.77	0.78
600		0.74	0.72	0.73	0.74
700		0.66	0.71	0.69	0.70
800		0.52	0.70	0.64	0.66
900		0.50		0.58	0.62
1000					0.60
1100					0.58
1200					0.55

NOTE:

\*\* The pressure ratings shown are for the braided hose only. The Assemblies in this catalog have been rated according to the fitting pressure rating at 500°F.

### TEMPERATURE CORRECTION FACTORS FOR ELEVATED TEMPERATURE APPLICATIONS

As the service temperature increases, the maximum pressure a hose assembly can withstand decreases. The material from which the hose is made and the method of fitting attachment determines the maximum pressure at which an assembly can be used. By using the factors given in this chart, the approximate safe working pressure at the elevated temperature can be calculated.



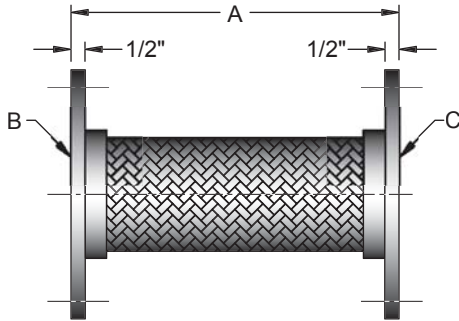
# DME INCORPORATED



# BRAIDED FLEXIBLE METAL HOSE ASSEMBLY

## TYPE 500 - LOW PRESSURE FIXED FLANGES EACH ENDS

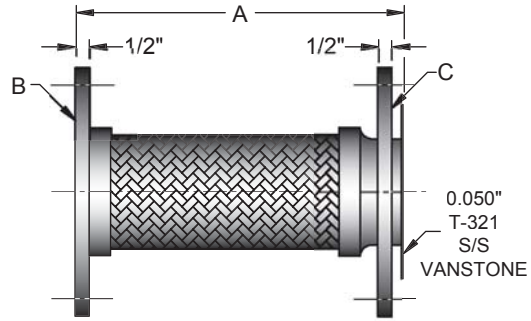
125/150# A 36 CARBON STEEL FIXED FLANGE EACH ENDS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



NOTE: See Page 31 For Flange Specifications.

## TYPE 501 - LOW PRESSURE FIXED FLANGE X FLOATING FLANGE

125/150# A 36 CARBON STEEL FIXED FLANGE ONE END  
125/150# A 36 CARBON STEEL FLOATING FLANGE OTHER END  
T-321 STAINLESS STEEL BRAIDED METAL HOSE

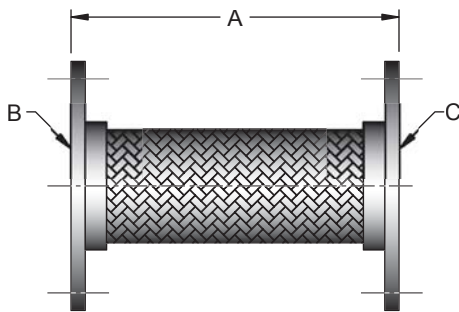


SIZE	A	FLG. SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	500-0200-10	150
2"	10.00	2"	2-1/2"	500-0200-2.50-10	150
2-1/2"	12.00	2-1/2"	2-1/2"	500-0250-12	110
2-1/2"	12.00	2-1/2"	3"	500-0250-3-12	110
3"	12.00	3"	3"	500-0300-12	90
3"	12.00	3"	4"	500-0300-4-12	90
4"	16.00	4"	4"	500-0400-16	80
4"	16.00	4"	5"	500-0400-5-16	80
5"	16.00	5"	5"	500-0500-16	60
5"	16.00	5"	6"	500-0500-6-16	60
6"	16.00	6"	6"	500-0600-16	50
6"	18.00	6"	8"	500-0600-8-18	50

SIZE	A	FLG. SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	501-0200-10	150
2"	10.00	2"	2-1/2"	501-0200-2.50-10	150
2-1/2"	12.00	2-1/2"	2-1/2"	501-0250-12	110
2-1/2"	12.00	2-1/2"	3"	501-0250-3-12	110
3"	12.00	3"	3"	501-0300-12	90
3"	12.00	3"	4"	501-0300-4-12	90
4"	16.00	4"	4"	501-0400-16	80
4"	16.00	4"	5"	501-0400-5-16	80
5"	16.00	5"	5"	501-0500-16	60
5"	16.00	5"	6"	501-0500-6-16	60
6"	18.00	6"	6"	501-0600-18	50
6"	18.00	6"	8"	501-0600-8-18	50

## TYPE 502 - HIGH PRESSURE FIXED FLANGES EACH ENDS

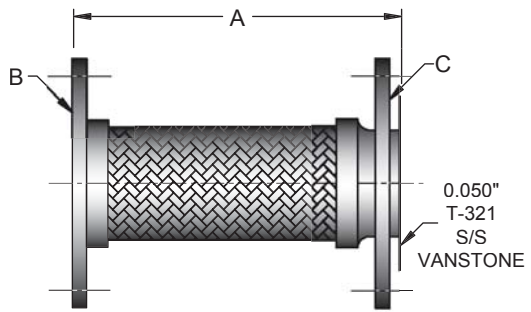
125/150# A 36 CARBON STEEL FIXED FLANGE EACH ENDS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



NOTE: See Page 32 For Flange Specifications.

## TYPE 503 - HIGH PRESSURE FIXED FLANGE X FLOATING FLANGE

125/150# A 36 CARBON STEEL FIXED FLANGE ONE END  
125/150# A 36 CARBON STEEL FLOATING FLANGE OTHER END  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



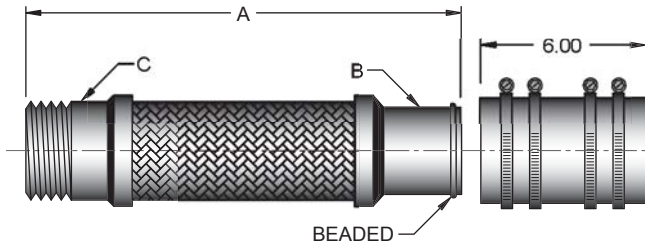
SIZE	A	FLG. SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	502-0200-10	518
2"	10.00	2"	2-1/2"	502-0200-2.50-10	400
2-1/2"	12.00	2-1/2"	2-1/2"	502-0250-12	387
2-1/2"	12.00	2-1/2"	3"	502-0250-3-12	175
3"	12.00	3"	3"	502-0300-12	175
3"	12.00	3"	4"	502-0300-4-12	175
4"	16.00	4"	4"	502-0400-16	191
4"	16.00	4"	5"	502-0400-5-16	191
5"	16.00	5"	5"	502-0500-16	191
5"	16.00	5"	6"	502-0500-6-16	160
6"	16.00	6"	6"	502-0600-16	160
6"	18.00	6"	8"	502-0600-8-18	160

SIZE	A	FLG. SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	503-0200-10	518
2"	10.00	2"	2-1/2"	503-0200-2.50-10	400
2-1/2"	12.00	2-1/2"	2-1/2"	503-0250-12	387
2-1/2"	12.00	2-1/2"	3"	503-0250-3-12	175
3"	12.00	3"	3"	503-0300-12	175
3"	12.00	3"	4"	503-0300-4-12	175
4"	16.00	4"	4"	503-0400-16	191
4"	16.00	4"	5"	503-0400-5-16	191
5"	16.00	5"	5"	503-0500-16	191
5"	16.00	5"	6"	503-0500-6-16	160
6"	18.00	6"	6"	503-0600-18	160
6"	18.00	6"	8"	503-0600-8-18	160

# BRAIDED FLEXIBLE METAL HOSE ASSEMBLY

## TYPE 504 - MALE NPT X BEADED TUBE

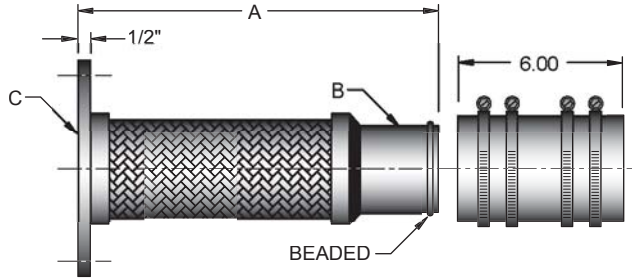
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
C/S BEADED TUBE W/ HIGH TEMP RUBBER HOSE & S/S CLAMPS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



HOSE SIZE	A	TUBE SIZE B	NPT SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 200°F
2"	14.00	2"	2"	504-0200-14	68
2-1/2"	14.00	2-1/4"	2-1/2"	504-0225-2.50-14	58
2-1/2"	14.00	2-1/2"	2-1/2"	504-0250-14	53
2-1/2"	14.00	2-1/2"	3"	504-0250-3-14	53
3"	15.00	3"	3"	504-0300-15	46
3"	15.00	3"	4"	504-0300-4-15	46
4"	18.00	3-1/2"	4"	504-0350-4-18	40
4"	18.00	4"	4"	504-0400-18	35

## TYPE 506 - FIXED FLANGE X BEADED TUBE

125/150# A 36 CARBON STEEL FIXED FLANGE  
C/S BEADED TUBE W/ HIGH TEMP RUBBER HOSE & S/S CLAMPS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



HOSE SIZE	A	TUBE SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 200°F
2"	12.00	2"	2"	506-0200-12	68
2"	12.00	2"	2-1/2"	506-0200-2.50-12	68
2-1/2"	12.00	2-1/4"	2-1/2"	506-0225-2.50-12	58
2-1/2"	12.00	2-1/2"	2-1/2"	506-0250-12	53
2-1/2"	12.00	2-1/2"	3"	506-0250-3-12	53
3"	14.00	3"	3"	506-0300-14	46
3"	14.00	3"	4"	506-0300-4-14	46
4"	15.00	3-1/2"	4"	506-0350-4-15	40
4"	15.00	4"	4"	506-0400-15	35
4"	15.00	4"	5"	506-0400-5-15	35
5"	15.00	5"	5"	506-0500-15	28
5"	15.00	5"	6"	506-0500-6-15	28

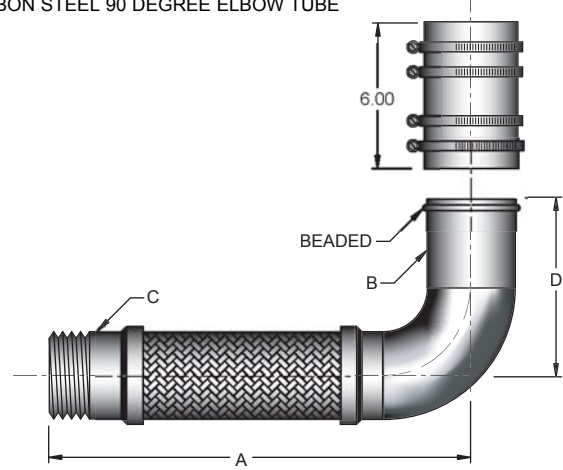
- NOTES:**
- Longer / Shorter Lengths Available.
  - Standard Fittings are Carbon Steel.
  - Stainless Fittings Available.
  - Heavy Duty Flanges Available.

See page 63 for braided stainless steel hose specifications.



## TYPE 505 - MALE NPT X 90° X BEADED TUBE

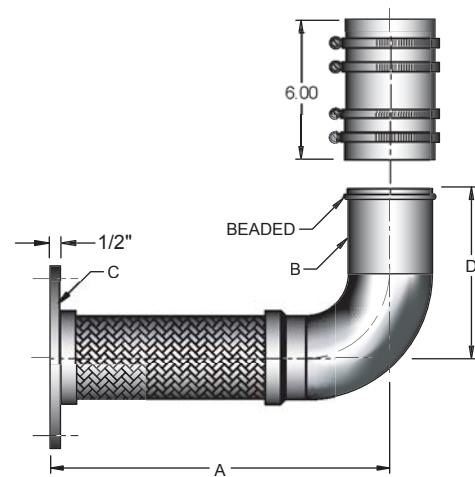
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
C/S BEADED TUBE W/ HIGH TEMP RUBBER HOSE & S/S CLAMPS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE  
CARBON STEEL 90 DEGREE ELBOW TUBE



HOSE SIZE	A	TUBE SIZE B	NPT SIZE C	D	PART NUMBER	MAX. PRESS. @ 200°F
2"	15.00	2"	2"	5.00	505-0200-15	68
2-1/2"	15.00	2-1/4"	2-1/2"	5.50	505-0225-2.50-16	58
2-1/2"	16.00	2-1/2"	2-1/2"	5.50	505-0250-16	53
2-1/2"	16.00	2-1/2"	3"	5.50	505-0250-3-16	53
3"	16.00	3"	3"	6.00	505-0300-19	46
3"	19.00	3"	4"	6.00	505-0300-4-19	46
4"	19.00	3-1/2"	4"	7.00	505-0350-4-19	40
4"	19.00	4"	4"	7.00	505-0400-19	35

## TYPE 507 - FIXED FLANGE X 90° X BEADED TUBE

125/150# A 36 CARBON STEEL FIXED FLANGE  
C/S BEADED TUBE W/ HIGH TEMP RUBBER HOSE & S/S CLAMPS  
T-321 STAINLESS STEEL BRAIDED METAL HOSE  
CARBON STEEL 90 DEGREE ELBOW TUBE

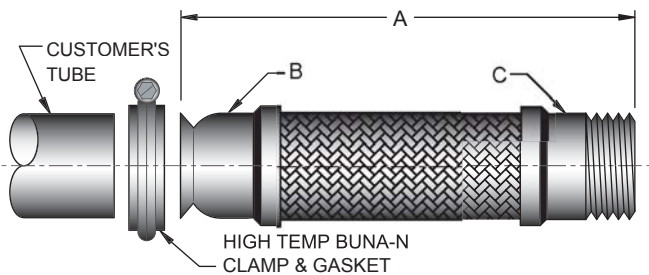


HOSE SIZE	A	TUBE SIZE B	FLANGE SIZE C	D	PART NUMBER	MAX. PRESS. @ 200°F
2"	15.00	2"	2"	5.00	507-0200-15	68
2-1/2"	16.00	2-1/4"	2-1/2"	5.50	507-0225-2.50-16	58
2-1/2"	16.00	2-1/2"	2-1/2"	5.50	507-0250-16	53
2-1/2"	16.00	2-1/2"	3"	5.50	507-0250-3-16	53
3"	19.00	3"	3"	6.00	507-0300-19	46
3"	19.00	3"	4"	6.00	507-0300-4-19	46
4"	19.00	3-1/2"	4"	7.00	507-0350-4-19	40
4"	19.00	4"	4"	7.00	507-0400-19	35
4"	19.00	4"	5"	7.00	507-0400-5-19	35

# BRAIDED FLEXIBLE METAL HOSE ASSEMBLY

## TYPE 508 - AEROQUIP X MALE NPT

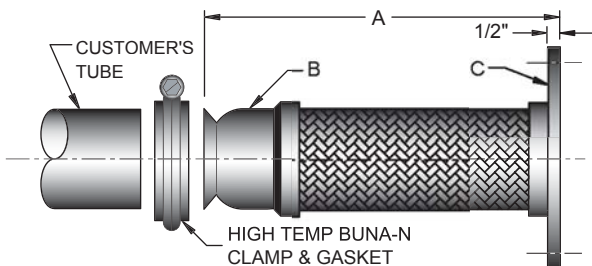
CARBON STEEL TUBE AEROQUIP FLEXMASTER  
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



HOSE SIZE	AEROQUIP NPT			PART NUMBER	MAXIMUM PRESSURE @ 225°F
	SIZE A	SIZE B	SIZE C		
2"	14.00	2"	2"	508-0200-14	200
2-1/2"	14.00	2-1/4"	2-1/2"	508-0225-2.50-14	150
2-1/2"	14.00	2-1/2"	2-1/2"	508-0250-14	150
2-1/2"	14.00	2-1/2"	3"	508-0250-3-14	150
3"	15.00	3"	3"	508-0300-15	150
4"	18.00	3-1/2"	4"	508-0350-4-18	150
4"	18.00	4"	4"	508-0400-4-18	150

## TYPE 510 - FIXED FLANGE X AEROQUIP

125/150# A 36 CARBON STEEL FIXED FLANGE  
CARBON STEEL TUBE AEROQUIP FLEXMASTER  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



HOSE SIZE	AEROQUIP FLG.			PART NUMBER	MAXIMUM PRESSURE @ 225°F
	SIZE A	SIZE B	SIZE C		
2"	12.00	2"	2"	510-0200-12	150
2-1/2"	12.00	2-1/4"	2-1/2"	510-0225-2.50-12	110
2-1/2"	12.00	2-1/4"	3"	510-0225-3-12	110
2-1/2"	12.00	2-1/2"	2-1/2"	510-0250-12	110
2-1/2"	12.00	2-1/2"	3"	510-0250-3-12	90
3"	14.00	3"	3"	510-0300-14	90
3"	14.00	3"	4"	510-0300-4-14	80
4"	14.00	3-1/2"	4"	510-0350-4-14	80
4"	15.00	4"	4"	510-0400-15	80
4"	15.00	4"	5"	510-0400-5-15	60
5"	15.00	5"	5"	510-0500-15	60
5"	15.00	5"	6"	510-0500-6-15	50

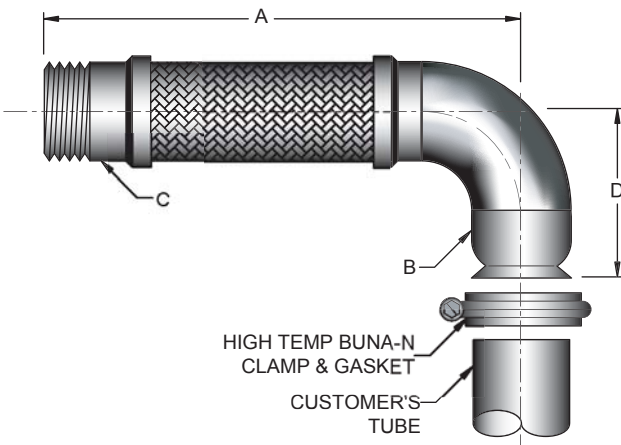
- NOTES:**
- Longer / Shorter Lengths Available.
  - Standard Fittings are Carbon Steel.
  - Stainless Fittings Available.
  - Heavy Duty Flanges Available.
  - Pipe Size Flexmaster Available.

See page 63 for braided stainless steel hose specifications.

Flexmaster joints are designed to seal pipe and tube connections. The Flexmaster joint is not intended to hold piping systems together. Normal hangers, guides, anchors, and other external piping restraints must be used to restrain the piping or tubing system from movement.

## TYPE 509 - AEROQUIP X 90° X MALE NPT

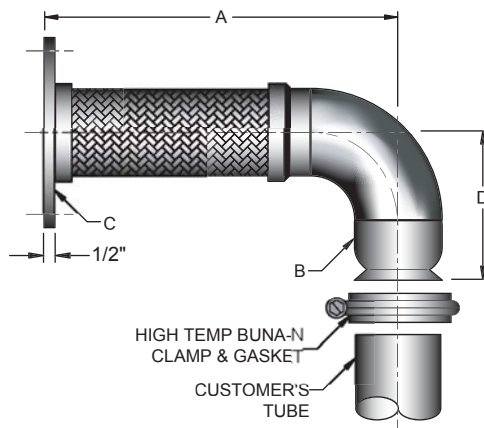
CARBON STEEL TUBE AEROQUIP FLEXMASTER  
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
T-321 STAINLESS STEEL BRAIDED METAL HOSE  
CARBON STEEL 90 DEGREE ELBOW TUBE



HOSE SIZE	AEROQUIP NPT				PART NUMBER	MAX. PRESS. @ 225°F
	SIZE A	SIZE B	SIZE C	D		
2"	15.00	2"	2"	3.13	509-0200-15	150
2-1/2"	16.00	2-1/4"	2-1/2"	3.38	509-0225-2.50-16	110
2-1/2"	16.00	2-1/2"	2-1/2"	3.88	509-0250-16	110
3"	16.00	3"	3"	4.56	509-0300-16	90
4"	18.00	3-1/2"	4"	5.75	509-0350-4-18	80
4"	18.00	4"	4"	6.25	509-0400-18	80
5"	18.00	5"	5"	7.75	509-0500-18	60

## TYPE 511 - FIXED FLANGE X 90° X AEROQUIP

125/150# A 36 CARBON STEEL FIXED FLANGE  
CARBON STEEL TUBE AEROQUIP FLEXMASTER  
T-321 STAINLESS STEEL BRAIDED METAL HOSE  
CARBON STEEL 90 DEGREE ELBOW TUBE

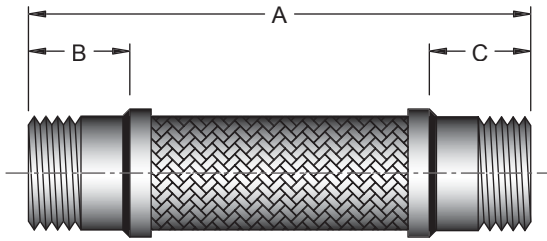


HOSE SIZE	AEROQUIP FLG.				PART NUMBER	MAX. PRESS. @ 225°F
	SIZE A	SIZE B	SIZE C	D		
2"	13.00	2"	2"	3.13	511-0200-13	150
2"	13.00	2"	2-1/2"	3.13	511-0200-2.50-13	150
2-1/2"	14.00	2-1/4"	2-1/2"	3.88	511-0225-2.50-14	110
2-1/2"	14.00	2-1/2"	2-1/2"	3.88	511-0250-14	110
2-1/2"	14.00	2-1/2"	3"	3.88	511-0250-3-14	90
3"	15.00	3"	3"	4.56	511-0300-15	90
3"	15.00	3"	4"	4.56	511-0300-4-15	80
4"	16.00	3-1/2"	4"	6.25	511-0350-4-16	80
4"	16.00	4"	4"	6.25	511-0400-16	80
4"	16.00	4"	5"	6.25	511-0400-5-16	60
5"	18.00	5"	5"	7.75	511-0500-18	60
5"	18.00	5"	6"	7.75	511-0500-6-18	50

# BRAIDED FLEXIBLE METAL HOSE ASSEMBLY

## TYPE 512 - MALE NPT X MALE NPT

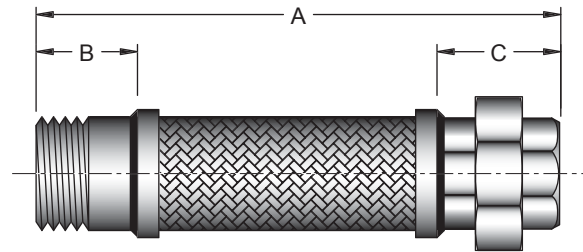
A 53-E GR. B CARBON STEEL MALE NPT THREAD EACH END  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



SIZE	A	B	C	PART NO.	MAX PRESS. @ 500°F
1/4"	10.00	1.50	1.50	512-0025-10	2,562
3/8"	10.00	1.50	1.50	512-0038-10	1,848
1/2"	10.00	1.50	1.50	512-0050-10	1,075
3/4"	11.00	2.00	2.00	512-0075-11	792
1"	12.00	2.00	2.00	512-0100-12	571
1-1/4"	13.00	2.00	2.00	512-0125-13	531
1-1/2"	14.00	2.00	2.00	512-0150-14	472
2"	15.00	2.50	2.50	512-0200-15	518
2-1/2"	18.00	3.00	3.00	512-0250-18	387
3"	18.00	3.00	3.00	512-0300-18	316
3-1/2"	20.00	4.00	4.00	512-0350-20	232
4"	20.00	4.00	4.00	512-0400-20	232
5"	20.00	4.00	4.00	512-0500-20	191
6"	20.00	4.00	4.00	512-0500-20	150

## TYPE 513 - MALE NPT X FEMALE UNION

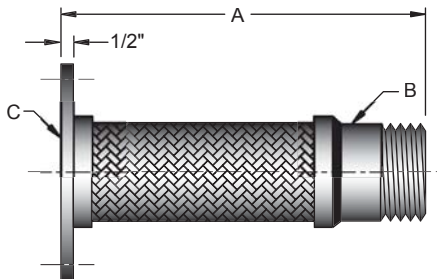
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
CARBON STEEL FEMALE UNION 150#  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



SIZE	A	B	C	PART NO.	MAX PRESS. @ 500°F
1/4"	10.00	1.50	1.50	513-0025-10	150
3/8"	10.00	1.50	1.75	513-0038-10	150
1/2"	10.00	1.50	2.00	513-0050-10	150
3/4"	11.00	2.00	2.00	513-0075-11	150
1"	12.00	2.00	2.50	513-0100-12	150
1-1/4"	13.00	2.00	2.63	513-0125-13	150
1-1/2"	14.00	2.00	2.75	513-0150-14	150
2"	15.00	2.50	3.00	513-0200-15	150
2-1/2"	18.00	3.00	3.38	513-0250-18	150
3"	18.00	3.00	4.00	513-0300-18	150
4"	20.00	4.00	4.50	513-0400-20	150

## TYPE 514 - MALE NPT THREAD X FIXED FLANGE

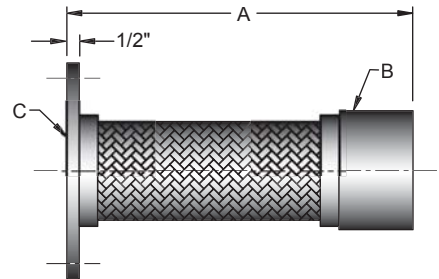
A 53-E GR. B CARBON STEEL MALE NPT THREAD  
125/150# A 36 CARBON STEEL FIXED FLANGE EACH END  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



SIZE	A	MIP SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	514-0200-10	150
2"	10.00	2"	3"	514-0200-3-10	90
2-1/2"	12.00	2-1/2"	2-1/2"	514-0250-12	110
2-1/2"	12.00	2-1/2"	3"	514-0250-3-12	90
3"	12.00	3"	3"	514-0300-12	90
3"	12.00	3"	4"	514-0300-4-12	80
4"	16.00	4"	4"	514-0400-16	80
4"	16.00	4"	5"	514-0400-5-16	60
5"	16.00	5"	5"	514-0500-16	60
5"	16.00	5"	6"	514-0500-6-16	50
6"	16.00	6"	6"	514-0600-16	50
6"	18.00	6"	8"	514-0600-8-18	45

## TYPE 515 - FEMALE NPT COUPLING X FIXED FLANGE

A 105 CARBON STEEL FEMALE NPT COUPLING  
125/150# A 36 CARBON STEEL FIXED FLANGE  
T-321 STAINLESS STEEL BRAIDED METAL HOSE



SIZE	A	FIP SIZE B	FLG. SIZE C	PART NUMBER	MAXIMUM PRESSURE @ 500°F
2"	10.00	2"	2"	515-0200-10	150
2"	10.00	2"	3"	515-0200-3-10	90
2-1/2"	12.00	2-1/2"	2-1/2"	515-0250-12	110
2-1/2"	12.00	2-1/2"	3"	515-0250-3-12	90
3"	12.00	3"	3"	515-0300-12	90
3"	12.00	3"	4"	515-0300-4-12	80
4"	16.00	4"	4"	515-0400-16	80
4"	16.00	4"	5"	515-0400-5-16	60
5"	16.00	5"	5"	515-0500-16	60
5"	16.00	5"	6"	515-0500-6-16	50
6"	16.00	6"	6"	515-0600-16	50
6"	18.00	6"	8"	515-0600-8-18	45

### NOTES:

- Longer / Shorter Lengths Available.
- Standard Fittings are Carbon Steel.
- Stainless Fittings Available.
- Heavy Duty Flanges Available.

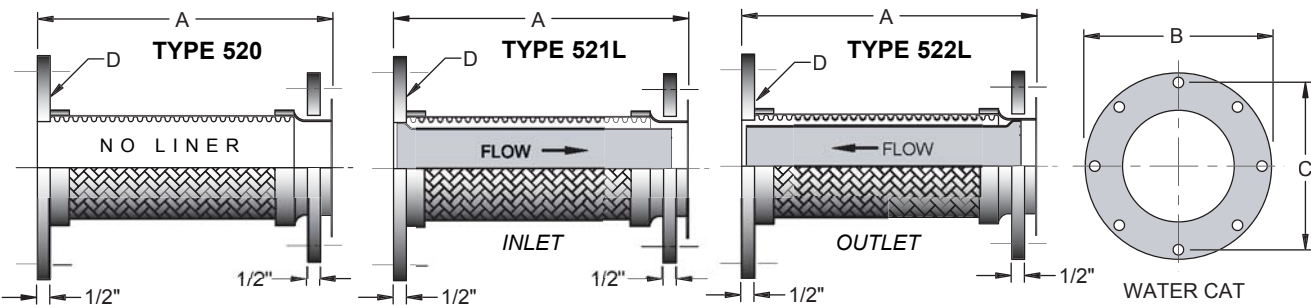
See page 63 for braided stainless steel hose specifications.



# CAT FLEXIBLE METAL HOSE ASSEMBLY

## TYPE 520, TYPE 521L & TYPE 522L - FLOATING CAT FLANGE X FIXED LOW PRESSURE ASA FLANGE

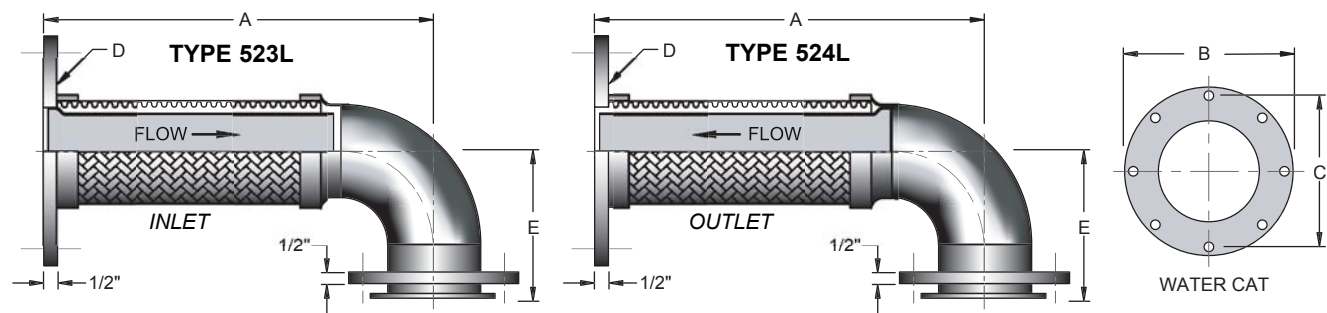
125/150# A 36 CARBON STEEL FIXED FLANGE, CAT 3500 AFTERCOOLER WATER INLET/OUTLET, A 36 CARBON STEEL FLOATING FLANGE, T-321 STAINLESS STEEL FLOW LINER (TYPE 521L & TYPE 522L)



HOSE SIZE	TYPE 520			TYPE 521L			TYPE 522L					
	A	B	C	CAT NO. OF HOLES	CAT HOLE DIA.	ASA FLG SIZE D	TYPE 520 PART NUMBER	MAX. PRESSURE @ 500°F	TYPE 521L PART NUMBER	MAX. PRESSURE @ 500°F	TYPE 522L PART NUMBER	MAX. PRESSURE @ 500°F
3"	12.00	5.94	4.92	4	0.56	3"	520-0300-12	90	521-0300-12L	90	522-0300-12L	90
3"	12.00	5.94	4.92	4	0.56	4"	520-0300-4-12	90	521-0300-4-12L	90	522-0300-4-12L	90
5"	16.00	7.64	6.88	8	0.44	5"	520-0500-16	60	521-0500-16L	60	522-0500-16L	60
5"	16.00	7.64	6.88	8	0.44	6"	520-0500-6-16	60	521-0500-6-16L	60	522-0500-6-16L	60
6"	16.00	7.64	6.88	8	0.44	6"	520-0600-16	60	521-0600-16L	60	522-0600-16L	60

## TYPE 523L & TYPE 524L - FLOATING CAT FLG. X 90° X FIXED ASA FLG. WITH FLOW LINER

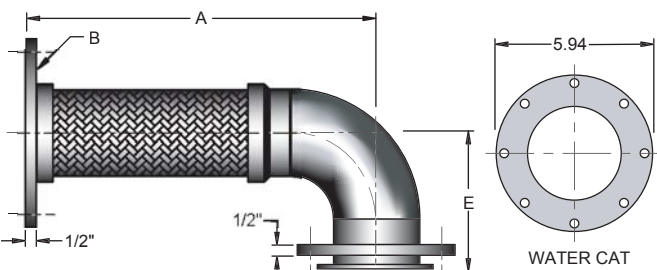
125/150# A 36 CARBON STEEL FIXED FLANGE, CAT 3500 AFTERCOOLER WATER INLET/OUTLET, A 36 CARBON STEEL FLOATING FLANGE ON 90 DEGREE ELBOW, T-321 STAINLESS STEEL FLOW LINER



HOSE SIZE	TYPE 523L			TYPE 524L							
	A	B	C	CAT NO. OF HOLES	CAT HOLE DIA.	ASA FLG SIZE D	E	TYPE 523L PART NUMBER	MAX. PRESSURE @ 500°F	TYPE 524L PART NUMBER	MAX. PRESSURE @ 500°F
3"	15.00	5.94	4.92	4	0.56	3"	5.00	523-0300-15L	90	524-0300-15L	90
3"	15.00	5.94	4.92	4	0.56	4"	5.00	523-0300-4-15L	90	524-0300-4-15L	90
5"	21.00	7.64	6.88	8	0.44	5"	8.00	523-0500-21L	60	524-0500-21L	60
5"	21.00	7.64	6.88	8	0.44	6"	8.00	523-0500-6-21L	60	524-0500-6-21L	60
6"	21.00	7.64	6.88	8	0.44	6"	8.00	523-0600-21L	60	524-0600-21L	60

## TYPE 525 - FLOATING CAT FLG. X 90° X FIXED ASA FLG.

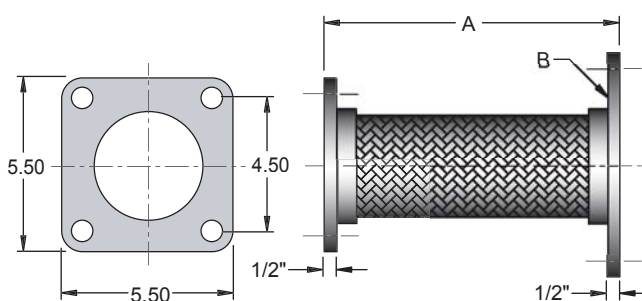
SAME AS ABOVE EXCEPT WITHOUT FLOW LINER



HOSE SIZE	ASA FLG. SIZE	CAT NO. OF HOLES	CAT HOLE DIA.	E	PART NO.	MAX. PRESS. @ 500°F
3"	3"	4	0.56	5.00	525-0300-15	90
3"	4"	4	0.56	5.00	525-0300-4-15	90
5"	5"	8	0.44	8.00	525-0500-21	90
5"	6"	8	0.44	8.00	525-0500-6-21	90
6"	6"	8	0.44	8.00	525-0600-21	90

## TYPE 526 - FIXED CAT FLANGE X FIXED ASA FLANGE

125/150# A 36 CARBON STEEL FIXED FLANGE, CAT G 3516 GAS LINE, A 36 CARBON STEEL FIXED FLANGE

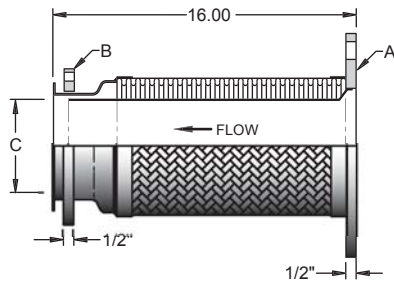


HOSE SIZE	ASA FLG. SIZE	CAT NO. OF HOLES	CAT HOLE DIA.	PART NO.	MAX. PRESS. @ 500°F
2"	2"	4	0.56	526-0200-12	150
2"	2-1/2"	4	0.56	526-0200-2.50-12	150



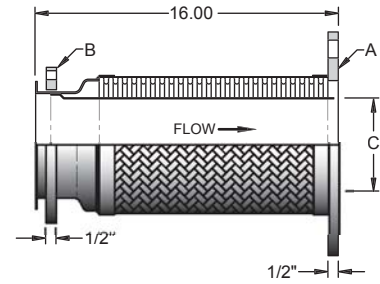
# FULL FLOW CAT FLEXIBLE METAL HOSE ASSY.

**TYPE 527 - FIXED FLANGE X FLOATING FLANGE**



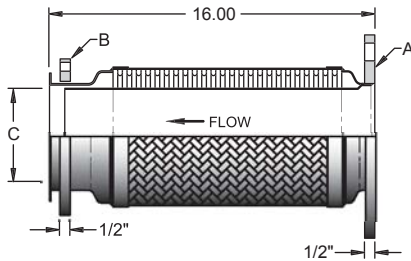
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	16.00	6"	5"	4.75"	527-0600-16	60

**TYPE 528 - FIXED FLANGE X FLOATING FLANGE**



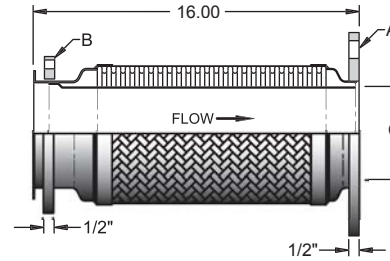
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	16.00	6"	5"	4.75"	528-0600-16	60

**TYPE 529 - FIXED FLANGE X FLOATING FLANGE**



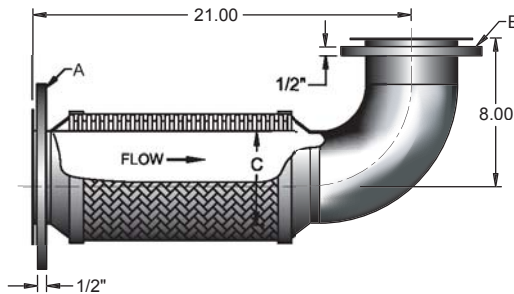
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	16.00	5"	5"	4.75"	529-0600-5-16	60

**TYPE 530 - FIXED FLANGE X FLOATING FLANGE**



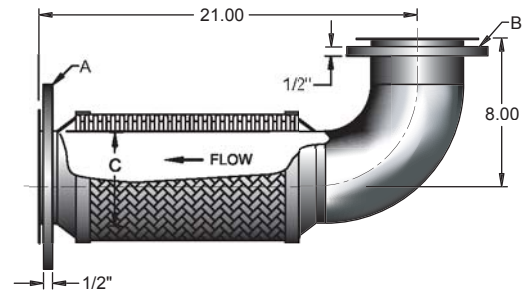
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	16.00	5"	5"	4.75"	530-0600-5-16	60

**TYPE 531 - FIXED FLANGE X 90° X FLOATING FLANGE**



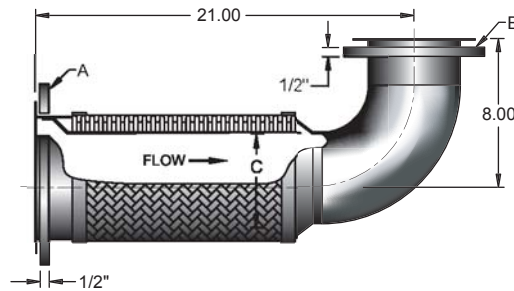
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	21.00	5"	5"	5.00"	531-0600-5-21	60

**TYPE 532 - FIXED FLANGE X 90° X FLOATING FLANGE**



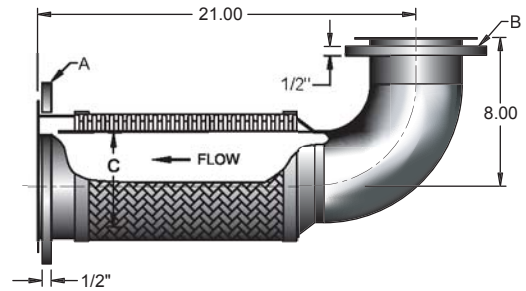
HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	21.00	5"	5"	5.00"	532-0600-5-21	60

**TYPE 533 - FIXED FLANGE X 90° X FLOATING FLANGE**



HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	21.00	6"	5"	5.00"	533-0600-21	60

**TYPE 534 - FIXED FLANGE X 90° X FLOATING FLANGE**



HOSE SIZE	ASA FLG. SIZE	CAT FLG. SIZE	LINER O.D.	MAX. PRESS. @ 500°F		
O.A.L.	A	B	C	PART NO.		
6"	21.00	6"	5"	5.00"	534-0600-21	60

125/150# A 36 CARBON STEEL FIXED FLANGE  
 A 36 CARBON STEEL CAT FLOATING FLANGE  
 STAINLESS STEEL VANSTONE (STANDARD)

T-321 STAINLESS STEEL BRAIDED METAL HOSE  
 T-321 STAINLESS STEEL FLOW LINER



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