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== ACCESSORY CATALOG & SPECIFICATIONS ==

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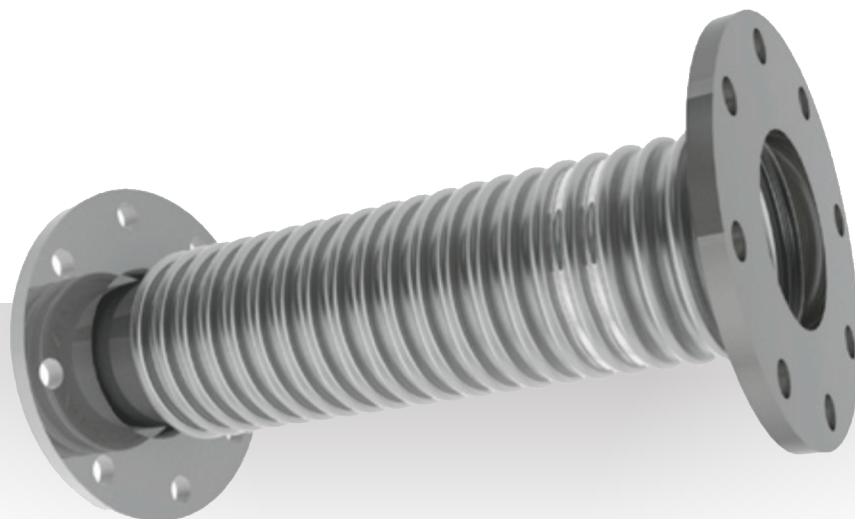
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10 · FLEX SPECIFICATIONS

Corrugated Flex - Technical Specifications



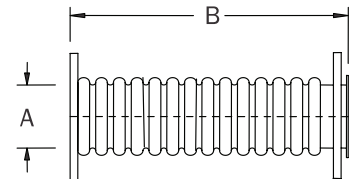
Nominal Hose ID (in.)	Nominal Hose OD (in.)	Max Lateral Offset/Foot	Max Axial Movement/Foot	Max Operating Temperature (°F)
2	2.75	0.96	0.14	1500°
2.5	3.17	0.82	0.22	1500°
3	3.75	0.74	0.22	1500°
4	4.82	0.60	0.22	1500°
5	5.87	0.47	0.22	1500°
6	6.94	0.42	0.22	1500°
8	9	0.30	0.22	1500°
10	11	0.20	0.22	1500°
12	13	0.17	0.22	1500°

10 • FLEX CONNECTORS

Corrugated Flex Connectors

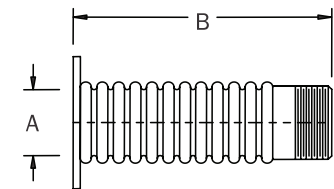
Floating ANSI Flange/ANSI Flange

Part Number	A	B	WT
3ACI-10-1F1-3518	3.5	18	18
3ACI-10-1F1-418	4	18	20
3ACI-10-1F1-518	5	18	24
3ACI-10-1F1-618	6	18	28
3ACI-10-1F1-818	8	18	39
3ACI-10-1F1-1018	10	18	51
3ACI-10-1F1-1218	12	18	64



Male NPT/ANSI Flange

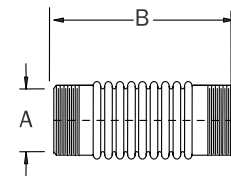
Part Number	A	B	WT
3ACI-10-21-218	2	18	9
3ACI-10-21-2518	2.5	18	10
3ACI-10-21-318	3	18	12
3ACI-10-21-3518	3.5	18	14
3ACI-10-21-418	4	18	16



Threaded pipe nipples may be replaced with plain pipe stubs.

Male NPT/Male NPT

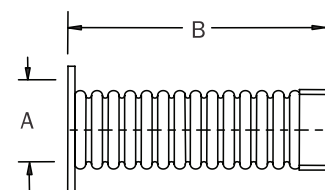
Part Number	A	B	WT
3ACI-10-22-218	2	18	6
3ACI-10-22-2518	2.5	18	6
3ACI-10-22-318	3	18	8
3ACI-10-22-3518	3.5	18	10
3ACI-10-22-418	4	18	11



Threaded pipe nipples may be replaced with plain pipe stubs.

Female Half Coupling/ANSI Flange

Part Number	A	B	WT
3ACI-10-31-218	2	18	9
3ACI-10-31-2518	2.5	18	10
3ACI-10-31-318	3	18	12
3ACI-10-31-3518	3.5	18	15
3ACI-10-31-418	4	18	16



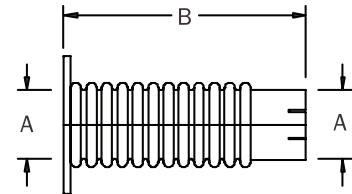
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist at 608-719-1800 for details.
All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
Flex is 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

10 • FLEX CONNECTORS

Corrugated Flex Connectors

Slotted ID Cuff/ANSI Flange

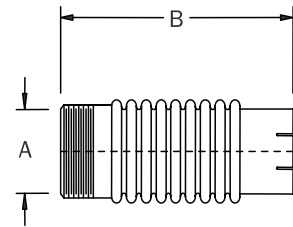
Part Number	A	B	WT
3ACI-10-41-218	2	18	9
3ACI-10-41-2518	2.5	18	10
3ACI-10-41-318	3	18	10
3ACI-10-41-3518	3.5	18	13
3ACI-10-41-418	4	18	14
3ACI-10-41-518	5	18	16
3ACI-10-41-618	6	18	19



Slotted ID Cuff/Male NPT

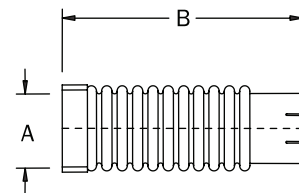
Part Number	A	B	WT
3ACI-10-42-218	2	18	5
3ACI-10-42-2518	2.5	18	6
3ACI-10-42-318	3	18	7
3ACI-10-42-3518	3.5	18	8
3ACI-10-42-418	4	18	9

Threaded pipe nipples may be replaced with plain pipe stubs.



Slotted ID Cuff/Female Half Coupling

Part Number	A	B	WT
3ACI-10-42-218	2	18	5
3ACI-10-42-2518	2.5	18	6
3ACI-10-42-318	3	18	7
3ACI-10-42-3518	3.5	18	8
3ACI-10-42-418	4	18	9



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.
All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
Flex is 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

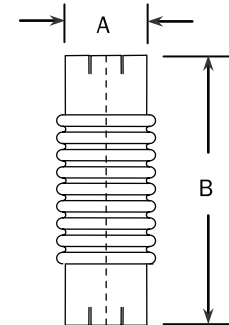
10 • FLEX CONNECTORS

Corrugated Flex Connectors

Slotted ID Cuff/Slotted ID Cuff

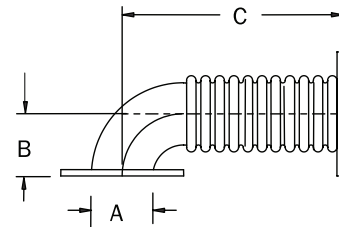
Part Number	A	B	WT
3ACI-10-44-218	2	18	5
3ACI-10-44-2518	2.5	18	5
3ACI-10-44-318	3	18	5
3ACI-10-44-3518	3.5	18	6
3ACI-10-44-418	4	18	7
3ACI-10-44-518	5	18	8
3ACI-10-44-618	6	18	10
3ACI-10-44-818	8	18	12
3ACI-10-44-1018	10	18	17

Tube ends may be substituted.



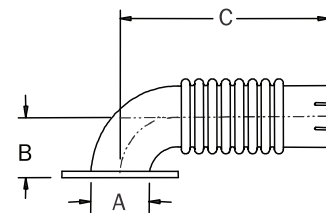
Floating ANSI Flange/90° Elbow/Floating ANSI Flange

Part Number	A	B	C	WT
3ACI-10-1F61F-600-B625C18	6	6.25	18	27
3ACI-10-1F61F-800-B10C24	8	10	24	48
3ACI-10-1F61F-1000-B11C24	10	11	24	63
3ACI-10-1F61F-1200-B12C24	12	12	24	84



Floating ANSI Flange/90° Elbow/Slotted ID Cuff

Part Number	A	B	C	WT
3ACI-10-1F64-400-B425C18	4	4.25	18	14
3ACI-10-1F64-500-B525C19	5	5.25	19	18
3ACI-10-1F64-600-B625C20	6	6.25	20	22



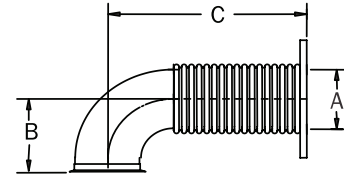
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.
All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
Flex is 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

10 • FLEX CONNECTORS

Corrugated Flex Connectors

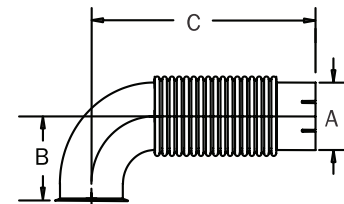
Flared Flange/90° Elbow/Floating ANSI Flange

Part Number	A	B	C	WT
3ACI-10-761F-500-B8C23.25	6	8	23.25	19
3ACI-10-761F-600-B9C24.50	8	9	24.50	23



Flared Flange/90° Elbow/Slotted ID Cuff

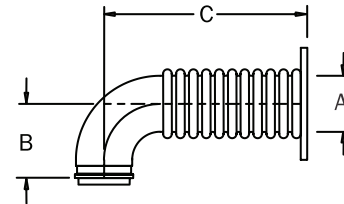
Part Number	A	B	C	WT
3ACI-10-764-350-B5C18	3.5	5	18	7
3ACI-10-764-400-B5.5C18	4	5.5	18	9
3ACI-10-764-500-B8C20	5	8	20	12
3ACI-10-764-600-B9C22	6	9	22	16



Machined Turbo Flange/90° Elbow/Floating ANSI Flange

Part Number	A	B	C	WT
3ACI-10-861F-500-B6.63C23.25	5	6.63	23.25	21
3ACI-10-861F-600-B7.63C24.50	6	7.63	24.50	26

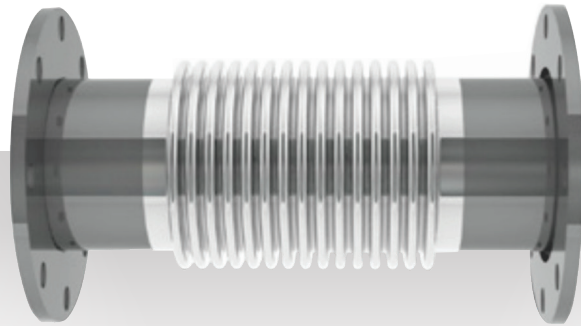
Both 5" and 6" connectors are equipped with a 5" machined turbo flange.



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.
All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
Flex is 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

11 · BELLOWS SPECIFICATIONS

Bellows/Expansion Joint - Technical Specifications



Specifications for Single Ply Bellows (Expansion Joints)

Nominal Size	PSIG	Temp (°F)	Axial Comp		Lateral Offset		Axial Spring Rate lbs./in.		Lateral Spring Rate lbs./in.**		Fatigue* (Cycle)
			S	L	S	L	S	L	S	L	
3"	5	1200°	1.0	2.0	.125	.50	261	156	249	53	10,000
4"	5	1200°	1.0	2.0	.125	.50	239	111	442	51	10,000
5"	5	1200°	1.0	2.0	.062	.50	459	202	1201	133	10,000
6"	5	1200°	1.0	2.0	.062	.50	542	239	1964	218	10,000
8"	5	1200°	1.0	2.0	.031	.50	712	317	4361	488	10,000
10"	5	1200°	1.0	2.0	.031	.25	693	322	7351	854	10,000
12"	5	1200°	1.0	2.0	.031	.25	828	385	12,266	1428	10,000
14"	5	1200°	1.0	2.0	.031	.25	661	308	12,445	1448	10,000
16"	5	1200°	1.0	2.0	.031	.25	753	351	18,189	2114	10,000
18"	5	1200°	1.0	2.0	.031	.25	845	393	25,420	2958	10,000
20"	5	1200°	1.0	2.0	.031	.25	936	436	34,370	3996	10,000
22"	5	1200°	1.0	2.0	.031	.25	1,027	478	45,161	5255	10,000
24"	5	1200°	1.0	2.0	.031	.25	1,118	520	58,048	6753	10,000

Movements are Concurrent.

Numbers presented are for 8"-12" and 12"-24" size bellows capsules.

*Numbers vary depending upon overall length.

**All Bellows designs are per Expansion Joint Manufacturers Association 9th Edition.

For specific requirements contact a Product Specialist.

All dimensions are in inches.

Consult a Product Specialist if greater movement is needed.

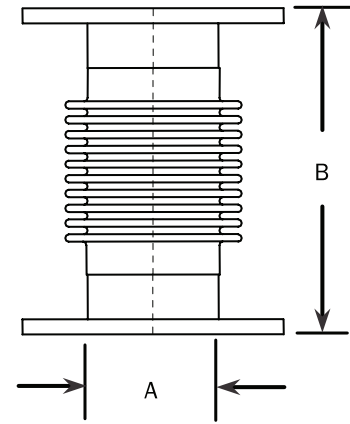
Larger diameters available upon request.

11 • BELLOWS

Bellows/Expansion Joints

Floating ANSI Flange/ANSI Flange

Part Number	A	B
3ACI-11-1F1-3512	3.5	12
3ACI-11-1F1-412	4	12
3ACI-11-1F1-514	5	14
3ACI-11-1F1-612	6	12
3ACI-11-1F1-618	6	18
3ACI-11-1F1-812	8	12
3ACI-11-1F1-818	8	18
3ACI-11-1F1-1012	10	12
3ACI-11-1F1-1018	10	18
3ACI-11-1F1-1212	12	12
3ACI-11-1F1-1218	12	18
3ACI-11-1F1-1412	14	12
3ACI-11-1F1-1418	14	18
3ACI-11-1F1-1612	16	12
3ACI-11-1F1-1618	16	18
3ACI-11-1F1-1812	18	12
3ACI-11-1F1-1818	18	18
3ACI-11-1F1-2012	20	12
3ACI-11-1F1-2018	20	18
3ACI-11-1F1-2212	22	12
3ACI-11-1F1-2218	22	18
3ACI-11-1F1-2412	24	12
3ACI-11-1F1-2418	24	18
3ACI-11-1F1-2612	26	12
3ACI-11-1F1-2618	26	18
3ACI-11-1F1-2812	28	12
3ACI-11-1F1-2818	28	18
3ACI-11-1F1-3012	30	12
3ACI-11-1F1-3018	30	18



All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.

Bellows are 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

Bellows flow liners are recommended for exhaust 6" and below when gas/stream flow conditions are greater than or equal to 4 feet/second/inch of diameter.

Bellows flow liners are recommended for exhaust 8" and above when gas/stream flow conditions are greater than or equal to 25 feet/second.

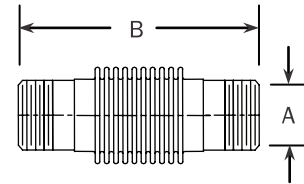
11 • BELLOWS

Bellows/Expansion Joints

Male NPT/Male NPT

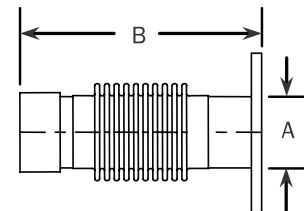
Part Number	A	B
3ACI-11-22-3514	3.5	14
3ACI-11-22-414	4	14
3ACI-11-22-516	5	16
3ACI-11-22-618	6	18

Threaded pipe nipples may be replaced with plain pipe stubs.



Female Half Coupling/ANSI Flange

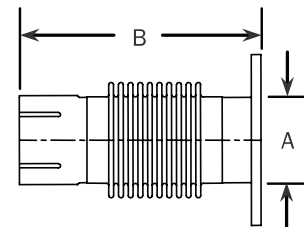
Part Number	A	B
3ACI-11-31-3514	3.5	14
3ACI-11-31-414	4	14
3ACI-11-31-516	5	16
3ACI-11-31-618	6	18



Slotted ID Cuff/ANSI Flange

Part Number	A	B
3ACI-11-41-3514	3.5	14
3ACI-11-41-414	4	14
3ACI-11-41-514	5	14
3ACI-11-41-618	6	18

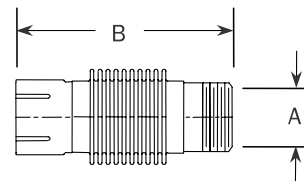
Cuff may be replaced by plain tube.



Slotted ID Cuff/Male NPT

Part Number	A	B
3ACI-11-42-3514	3.5	14
3ACI-11-42-414	4	14
3ACI-11-42-516	5	16
3ACI-11-42-618	6	18

Threaded pipe nipples may be replaced with plain pipe stubs.



All dimensions are in inches. Larger sizes available. Call Product Specialist for details.

All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.

Bellows are 321 stainless steel. End connections are carbon steel. Connections available in stainless steel. Call Product Specialist for details.

Bellows flow liners are recommended for exhaust 6" and below when gas/stream flow conditions are greater than or equal to 4 feet/second/inch of diameter.

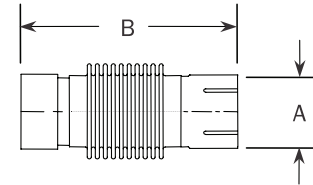
Bellows flow liners are recommended for exhaust 8" and above when gas/stream flow conditions are greater than or equal to 25 feet/second.

11 • BELLOWS

Bellows/Expansion Joints

Slotted ID Cuff/Female Half Coupling

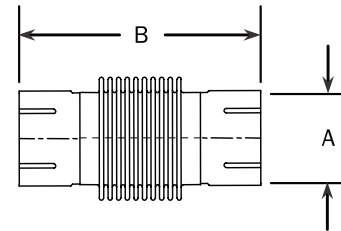
Part Number	A	B
3ACI-11-43-3514	3.5	14
3ACI-11-43-414	4	14



Slotted ID Cuff/Slotted ID Cuff

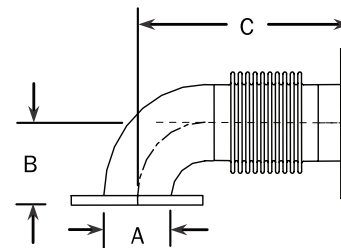
Part Number	A	B
3ACI-11-44-3518	3.5	18
3ACI-11-44-418	4	18
3ACI-11-44-518	5	18
3ACI-11-44-618	6	18
3ACI-11-44-818	8	18
3ACI-11-44-1018	10	18
3ACI-11-44-1218	12	18

Tube ends may be substituted.



Floating ANSI Flange/90° Elbow/Floating ANSI Flange

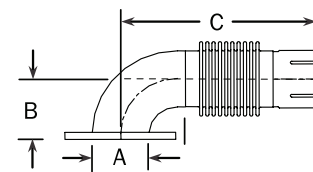
Part Number	A	B	C
3ACI-11-1F61F-400-B425C16	4	4.25	16
3ACI-11-1F61F-500-B525C16	5	5.25	16
3ACI-11-1F61F-600-B625C18	6	6.25	18
3ACI-11-1F61F-800-B10C18	8	10	18
3ACI-11-1F61F-1000-B11C24	10	11	24
3ACI-11-1F61F-1200-B12C24	12	12	24



Floating ANSI Flange/90° Elbow/Slotted ID Cuff

Part Number	A	B	C
3ACI-11-1F64-400-B425C18	4	4.25	18
3ACI-11-1F64-500-B525C18	5	5.25	18
3ACI-11-1F64-600-B625C20	6	6.25	20

Tube ends may be substituted.

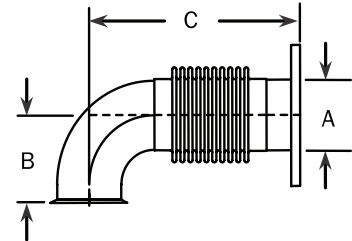


11 • BELLOWS

Bellows/Expansion Joints

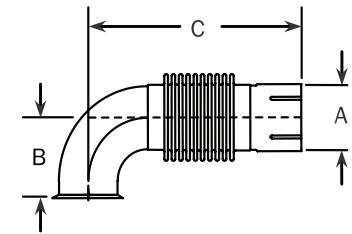
Flared Flange/90° Elbow/Floating ANSI Flange

Part Number	A	B	C
3ACI-11-761F-500-B8C18	5	8	18
3ACI-11-761F-600-B9C18	6	9	18



Flared Flange/90° Elbow/Slotted ID Cuff

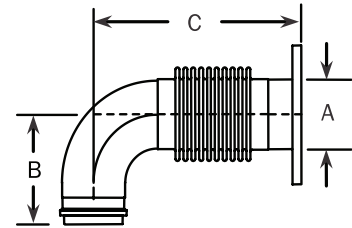
Part Number	A	B	C
3ACI-11-764-350-B5C18	3.5	5	18
3ACI-11-764-400-B5.5C18	4	5.5	18
3ACI-11-764-500-B8C20	5	8	20
3ACI-11-764-600-B9C22	6	9	22



Machined Turbo Flange/90° Elbow/Floating ANSI Flange

Part Number	A	B	C
3ACI-11-861F-500-B6.63C18	5	6.63	18
3ACI-11-861F-600-B7.63C18	6	7.63	18
3ACI-11-DD-861F-600-B9.47C20	6	9.47	20

Both 5" and 6" connectors are equipped with a 5" machined turbo flange.



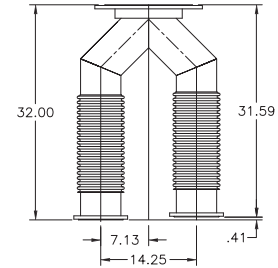
13 • WYES

Cummins Engine Wyes • Custom options available for all engine models.

Cummins QST 30

Part Number	Gen Set Model	Size	WT
3ACI-13-34296	DQFAA 750	6 X 6 X 10	57
3ACI-13-34296	DQFAB 800	6 X 6 X 10	57
3ACI-13-33671	DQFAC 900	6 X 6 X 12	69
3ACI-13-37290	DQFAD 1000	6 X 6 X 14	75

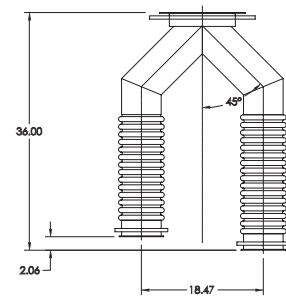
Floating Cummins flanged inlets. Floating ANSI flanged outlet.



Cummins QSK 50

Part Number	Gen Set Model	Size	WT
3ACI-13-37291	DQKAA 1250	6 X 6 X 12	72
3ACI-13-36209	DQKAB 1250	6 X 6 X 14	78
3ACI-13-36209	DQKAB 1500	6 X 6 X 14	78
3ACI-13-39349	DQKAB 1500	8 X 8 X 14	91

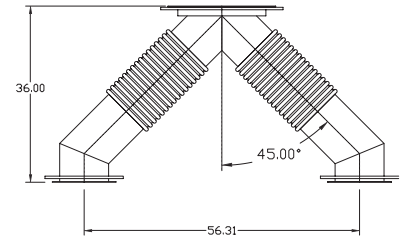
Floating Cummins flanged inlets. Floating ANSI flanged outlet.



Cummins QSK 60

Part Number	Gen Set Model	Size	WT
3ACI-13-37294	DQKAA 1750	10 X 10 X 14	157
3ACI-13-37295	DQKAA 1750	10 X 10 X 16	162
3ACI-13-37295	DQKAB 2000	10 X 10 X 16	162
3ACI-13-37296	DQKAB 2000	10 X 10 X 18	163
3ACI-13-37297	DQKAB 2000	10 X 10 X 20	176
3ACI-13-14913	DQKH 2250	10 X 10 X 18	163
3ACI-13-37645	DQKH 2250	10 X 10 X 20	176

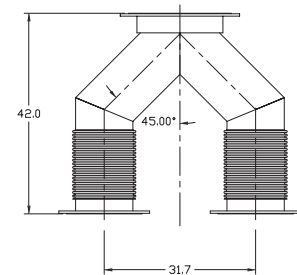
Floating ANSI flanged inlets and outlet, unless otherwise noted.



Cummins QSK 78

Part Number	Gen Set Model	Size	WT
3ACI-13-22527	DQLA 2700 & DQLC 2500	12 X 12 X 18	187
3ACI-13-23243	DQLA 2700 & DQLC 2500	12 X 12 X 20	203
3ACI-13-23260	DQLA 2700 & DQLC 2500	12 X 12 X 22	212
3ACI-13-23261	DQLA 2700 & DQLC 2500	12 X 12 X 24	226

Floating ANSI flanged inlets. Floating ANSI flanged outlet.



PLEASE ENSURE FIT AND FUNCTION FOR WYE BEFORE ORDERING.

All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.

All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.

Wyes are carbon steel construction with 321 stainless steel corrugated flex hose. Connections available in stainless steel. Call Product Specialist for details.

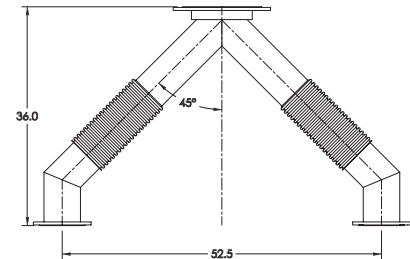
14 • WYES

MTU Engine Wyes • Custom options available for all engine models.

MTU 2000 Series • 650-1000 DSEC • 12V-2000 & 16V-2000

Part Number	kW	Size	WT
3ACI-14-35467	650	6 X 6 X 10	70
3ACI-14-35467	750	6 X 6 X 10	70
3ACI-14-36227	900	6 X 6 X 12	82
3ACI-14-36227	1000	6 X 6 X 12	82

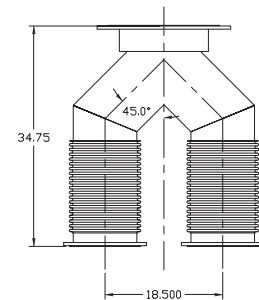
Floating 6" MTU flanged inlets. Floating ANSI flanged outlet.



MTU 4000 Series • 12V-4000

Part Number	kW	Size	WT
3ACI-14-14910	1250, 1350, 1500 & 1750	10 X 10 X 14	118
3ACI-14-18457	1250, 1350, 1500 & 1750	10 X 10 X 16	127

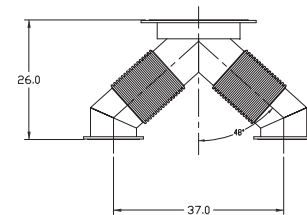
Floating 10" MTU flanged inlets. Floating ANSI flanged outlet.



MTU 4000 Series • 16V-4000

Part Number	kW	Size	WT
3ACI-14-13692	2000	10 X 10 X 16	117
3ACI-14-14911	2000	10 X 10 X 18	118

Floating 10" MTU flanged inlets. Floating ANSI flanged outlet.



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.
10" MTU flanged inlets and ANSI flanged outlet, unless otherwise noted. All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.
Wyes are carbon steel construction with 321 stainless steel corrugated flex hose. Connections available in stainless steel. Call Product Specialist for details.

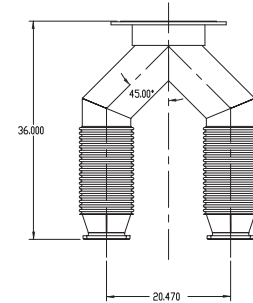
15 • WYES

Caterpillar Engine Wyes • Custom options available for all engine models.

Caterpillar 3508 B • 6" CAT Flanged Inlets

Part Number	kW	Size	WT
3ACI-15-9330	910	8 X 8 X 12	90

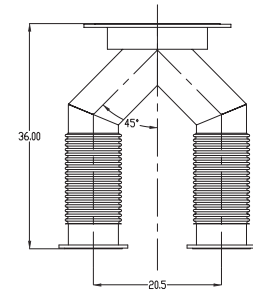
Floating CAT flanged inlets and floating ANSI flanged outlet, unless otherwise noted.



Caterpillar 3512 C • 8" CAT Flanged Inlets

Part Number	kW	Size	WT
3ACI-15-9326	1275	8 X 8 X 14	102
3ACI-15-9326	1360	8 X 8 X 14	102
3ACI-15-9327	1360	8 X 8 X 16	113
3ACI-15-9326	1400	8 X 8 X 14	102
3ACI-15-9327	1400	8 X 8 X 16	113
3ACI-15-9328	1500	10 X 10 X 14	117
3ACI-15-9329	1500	10 X 10 X 16	126

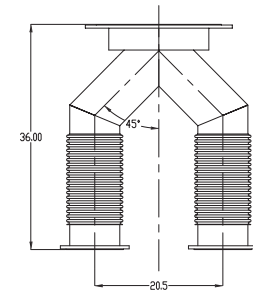
Floating CAT flanged inlets and floating ANSI flanged outlet, unless otherwise noted.



Caterpillar 3516 C • 8" CAT Flanged Inlets

Part Number	kW	Size	WT
3ACI-15-8571	1640	10 X 10 X 16	126
3ACI-15-8572	1640	10 X 10 X 18	128
3ACI-15-8571	1825	10 X 10 X 16	126
3ACI-15-8572	1825	10 X 10 X 18	128
3ACI-15-8571	2000	10 X 10 X 16	126
3ACI-15-8572	2000	10 X 10 X 18	128

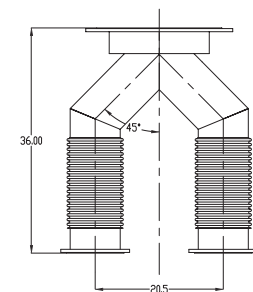
Floating CAT flanged inlets and floating ANSI flanged outlet, unless otherwise noted.



Caterpillar 3516 Quad Turbo • 8" CAT Flanged Inlets

Part Number	kW	Size	WT
3ACI-15-8570	1500	10 X 10 X 14	117
3ACI-15-8571	1500	10 X 10 X 16	126
3ACI-15-8571	1750	10 X 10 X 16	126
3ACI-15-8572	1750	10 X 10 X 18	128

Floating CAT flanged inlets and floating ANSI flanged outlet, unless otherwise noted.



All dimensions are in inches. All weights are in pounds.

All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges.

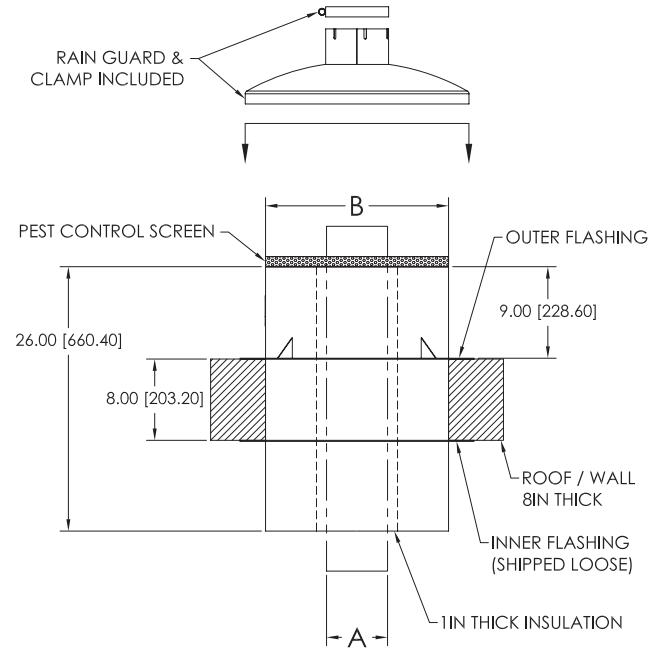
Wyes are carbon steel construction with 321 stainless steel corrugated flex hose. Connections available in stainless steel. Call Product Specialist for details.

20 • THIMBLES

Wall and Roof Thimbles

Type C • Combustible Walls

Part Number	A	B	WT
3ACI-20-C-200	2	14	52
3ACI-20-C-238	2.38	15	53
3ACI-20-C-250	2.5	15	53
3ACI-20-C-288	2.88	15	57
3ACI-20-C-300	3	15	57
3ACI-20-C-350	3.5	16	58
3ACI-20-C-400	4	16	66
3ACI-20-C-450	4.5	17	68
3ACI-20-C-500	5	17	88
3ACI-20-C-556	5.56	18	90
3ACI-20-C-600	6	18	98
3ACI-20-C-663	6.63	19	100
3ACI-20-C-800	8	20	114
3ACI-20-C-863	8.63	21	117
3ACI-20-C-1000	10	22	130
3ACI-20-C-1075	10.75	23	136
3ACI-20-C-1200	12	24	146
3ACI-20-C-1275	12.75	25	150
3ACI-20-C-1400	14	26	159
3ACI-20-C-1600	16	28	175
3ACI-20-C-1800	18	30	218



Type NC • Roof & Non-Combustible Walls

Part Number	A	B	WT
3ACI-20-NC-200	2	9	38
3ACI-20-NC-238	2.38	9	39
3ACI-20-NC-250	2.5	9	39
3ACI-20-NC-288	2.88	10	43
3ACI-20-NC-300	3	10	43
3ACI-20-NC-350	3.5	10	44
3ACI-20-NC-400	4	11	46
3ACI-20-NC-450	4.5	11	49
3ACI-20-NC-500	5	12	60
3ACI-20-NC-556	5.56	12	61
3ACI-20-NC-600	6	13	69
3ACI-20-NC-663	6.63	13	70
3ACI-20-NC-800	8	15	84
3ACI-20-NC-863	8.63	15	86
3ACI-20-NC-1000	10	17	104
3ACI-20-NC-1075	10.75	17	108
3ACI-20-NC-1200	12	19	117
3ACI-20-NC-1275	12.75	19	121
3ACI-20-NC-1400	14	20	131
3ACI-20-NC-1600	16	22	145
3ACI-20-NC-1800	18	26	180

OD Measurement of Standard Schedule Pipe

Nominal Pipe Size	OD (Thimble "A" Dim)
2	2.38
2.5	2.88
3	3.50
4	4.50
5	5.56
6	6.63
8	8.63
10	10.75
12	12.75
14	14.00

"A" Dimension measures the outside diameter of the exhaust tube or pipe. See chart above for outside diameter of standard pipe.

All dimensions are in inches. All weights are in pounds. Weights are approximate. Carbon steel construction. Available in stainless steel. Call Product Specialist for details.

When calculating height thimble must have a 9" clearance on each side of the wall or roof. To prevent warping, outer flashing is not welded 100%.

Be sure to include correct roof pitch on all roof applications. There is an additional charge for non-flat roof applications.

Conforms to NFPA 37 and 110. The above thimbles have been sized for standard (8") thick walls and roofs.

Thermal barrier used within the thimbles is composed of high density, type "E" fibers, fibrous glass heavy-duty insulation. Apply high-temp

Mil-A-46106B 100 Series Silicon RTV where needed.

Pest Control Screen adds 2"-3" to exterior height. Consult Product Specialist for specifics. All Carbon Steel Thimbles will come with High Heat Black Paint non-standard.

21 • ROOF JACKS

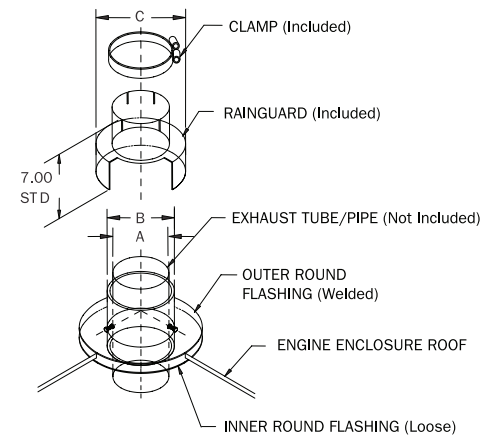
Roof Jacks

Rainguards • Cuffed

Part Number	A	B	C
3ACI-21-C-400	4	5	15
3ACI-21-C-450	4.5	5.5	15
3ACI-21-C-500	5	6	15
3ACI-21-C-556	5.56	6.5	15
3ACI-21-C-600	6	7	15
3ACI-21-C-663	6.63	7.8	15
3ACI-21-C-800	8	9	18
3ACI-21-C-863	8.63	9.8	18
3ACI-21-C-1000	10	11	20
3ACI-21-C-1075	10.75	12	20
3ACI-21-C-1200	12	13	24
3ACI-21-C-1275	12.75	14	24

Clamp included.

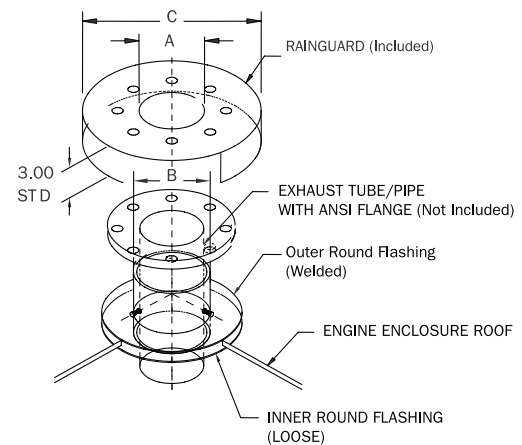
Roof jacks are designed for non-combustible gauge metal enclosures only.



Rainguards • Flanged

Part Number	A	B	C
3ACI-21-F-400	4	5	15
3ACI-21-F-450	4.5	5.5	15
3ACI-21-F-500	5	6	15
3ACI-21-F-556	5.56	6.5	15
3ACI-21-F-600	6	7	15
3ACI-21-F-663	6.63	7.8	15
3ACI-21-F-800	8	9	18
3ACI-21-F-863	8.63	9.8	18
3ACI-21-F-1000	10	11	20
3ACI-21-F-1075	10.75	12	20
3ACI-21-F-1200	12	13	24
3ACI-21-F-1275	12.75	14	24

Roof jacks are designed for non-combustible gauge metal enclosures only.



CAUTION: Roof jacks are designed for non-combustible metal enclosures only. Avoid potential fire hazard. Product should never be exposed to combustible material. DO NOT USE if combustible materials are present. Refer to Wall and Roof Thimbles (pages 17-18) for applications where combustible materials will come in contact with the product. All dimensions are in inches. Larger sizes available. Call Product Specialist for details. Available in stainless steel. Call Product Specialist for details.

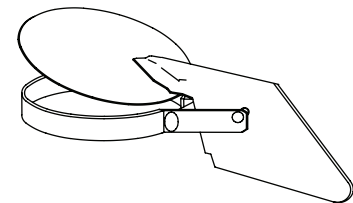
22 • RAIN CAPS

Standard and Heavy-Duty Rain Caps

Standard • Carbon Steel

Part Number	ID (Collar)
3ACI-22-150	1.5
3ACI-22-200	2
3ACI-22-238	2.38
3ACI-22-250	2.5
3ACI-22-288	2.88
3ACI-22-300	3
3ACI-22-350	3.5
3ACI-22-400	4
3ACI-22-450	4.5
3ACI-22-500	5
3ACI-22-556	5.56
3ACI-22-600	6
3ACI-22-663	6.63

Recommended for both horizontal and vertical installation.



Zinc Plated

Heavy Duty • Carbon Steel

Part Number	ID (Collar)	WT
3ACI-22-700-HD	7	5
3ACI-22-800-HD	8	5
3ACI-22-863-HD	8.63	6
3ACI-22-900-HD	9	6
3ACI-22-1000-HD	10	7
3ACI-22-1075-HD	10.75	8
3ACI-22-1200-HD	12	9
3ACI-22-1275-HD	12.75	10
3ACI-22-1400-HD	14	26
3ACI-22-1600-HD	16	29
3ACI-22-1800-HD	18	43
3ACI-22-2000-HD	20	64
3ACI-22-2200-HD	22	72
3ACI-22-2400-HD	24	84
3ACI-22-2600-HD	26	88
3ACI-22-2800-HD	28	94
3ACI-22-3000-HD	30	99

Recommended for vertical installation only.



High Heat Black

All dimensions are in inches. All weights are in pounds. Weights are approximate. Other sizes available. Call Product Specialist for details.

22 • RAIN CAPS

Stainless Steel Rain Caps

Standard • 304 Stainless Steel

Part Number	ID (Collar)
3ACI-22-200-S304	2
3ACI-22-238-S304	2.38
3ACI-22-250-S304	2.5
3ACI-22-288-S304	2.88
3ACI-22-300-S304	3
3ACI-22-350-S304	3.5
3ACI-22-400-S304	4
3ACI-22-450-S304	4.5
3ACI-22-500-S304	5
3ACI-22-556-S304	5.56
3ACI-22-600-S304	6
3ACI-22-663-S304	6.63

Recommended for vertical installation only.



Heavy Duty • 304 Stainless Steel

Part Number	ID (Collar)	WT
3ACI-22-800-S304	8	5
3ACI-22-863-S304	8.63	6
3ACI-22-1000-S304	10	7
3ACI-22-1075-S304	10.75	8
3ACI-22-1200-S304	12	9
3ACI-22-1275-S304	12.75	10
3ACI-22-1400-S304	14	26
3ACI-22-1600-S304	16	29
3ACI-22-1800-S304	18	43
3ACI-22-2000-S304	20	64
3ACI-22-2200-S304	22	72
3ACI-22-2400-S304	24	84

Recommended for vertical installation only.



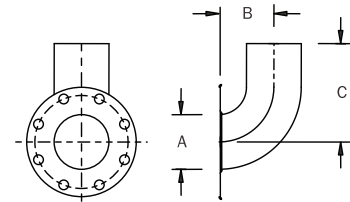
All dimensions are in inches. All weights are in pounds. Weights are approximate. Other sizes available. Call Product Specialist for details.

23-24 • ELBOWS

90° Elbows: Flanged One End

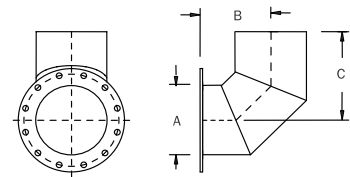
90° Tube Elbow (Short Radius) • Flanged One End

Part Number	A	B	C	WT
3ACI-23-400	4	4.38	7.5	9
3ACI-23-500	5	5.25	9	11
3ACI-23-600	6	6.25	11	14
3ACI-23-800	8	10	12	26
3ACI-23-1000	10	11	14	35
3ACI-23-1200	12	12	16	48



90° Mitred Elbow (Short Radius) • Flanged One End

Part Number	A	B	C	WT
3ACI-24-800	8	8	8	22
3ACI-24-1000	10	10	10	31
3ACI-24-1200	12	12	12	45
3ACI-24-1400	14	14	14	55
3ACI-24-1600	16	16	16	81
3ACI-24-1800	18	18	18	94
3ACI-24-2000	20	20	20	114
3ACI-24-2200	22	22	22	133
3ACI-24-2400	24	24	24	158
3ACI-24-2600	26	26	26	183
3ACI-24-2800	28	28	28	208
3ACI-24-3000	30	30	30	387



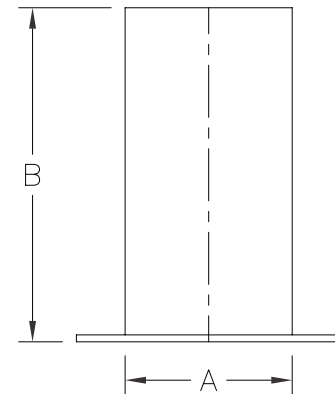
Available in stainless steel. Call Product Specialist for details. Connection(s) are ANSI steel plate flanges unless otherwise specified.

25 • OUTLET EXTENSIONS

Assembled Tubing

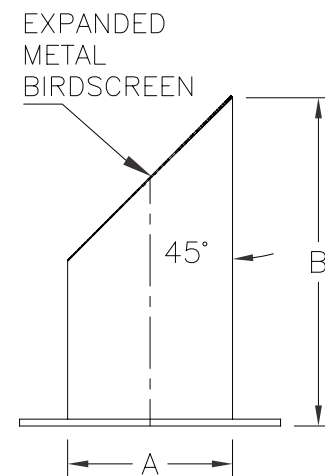
Straight Tube (Stacks) • Flanged One End

Part Number	A (OD)	B
3ACI-25-400-1	4	12
3ACI-25-450-1	4.5	12
3ACI-25-500-1	5	15
3ACI-25-600-1	6	18
3ACI-25-800-1	8	18
3ACI-25-1000-1	10	20
3ACI-25-1200-1	12	24
3ACI-25-1400-1	14	28
3ACI-25-1600-1	16	32
3ACI-25-1800-1	18	36
3ACI-25-2000-1	20	40
3ACI-25-2200-1	22	44
3ACI-25-2400-1	24	48
3ACI-25-2600-1	26	48
3ACI-25-2800-1	28	48
3ACI-25-3000-1	30	48



Straight Tube • 45° Cut with Bird Screen

Part Number	A (OD)	B
3ACI-25-400-2	4	12
3ACI-25-450-2	4.5	12
3ACI-25-500-2	5	15
3ACI-25-600-2	6	18
3ACI-25-800-2	8	18
3ACI-25-1000-2	10	20
3ACI-25-1200-2	12	24
3ACI-25-1400-2	14	28
3ACI-25-1600-2	16	32
3ACI-25-1800-2	18	36
3ACI-25-2000-2	20	40
3ACI-25-2200-2	22	44
3ACI-25-2400-2	24	48
3ACI-25-2600-2	26	48
3ACI-25-2800-2	28	48
3ACI-25-3000-2	30	48



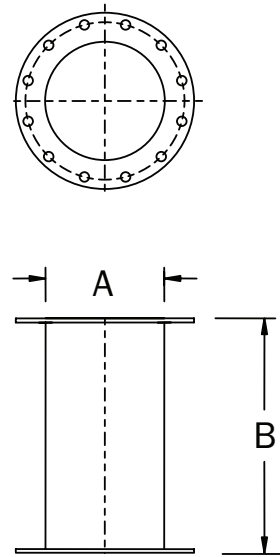
All dimensions are in inches. Larger sizes available. Call Product Specialist for details. Available in stainless steel. Call Product Specialist for details. Connection(s) are ANSI steel plate flanges unless otherwise specified. See price sheet for optional lengths.

25-26 • OUTLET EXTENSIONS

Assembled Tubing & 90° Elbows

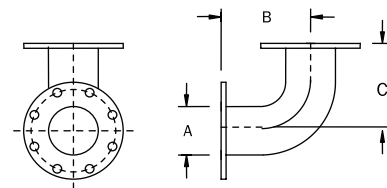
Straight Tube • Flanged Both Ends

Part Number	Std. Length	A (OD)	B	WT
3ACI-25-11-400-12	12	4	12	16
3ACI-25-11-450-12	12	4.5	12	16
3ACI-25-11-500-15	15	5	15	23
3ACI-25-11-600-18	18	6	18	25
3ACI-25-11-800-18	18	8	18	38
3ACI-25-11-1000-20	20	10	20	50
3ACI-25-11-1200-24	24	12	24	72
3ACI-25-11-1400-28	28	14	28	87
3ACI-25-11-1600-32	32	16	32	108
3ACI-25-11-1800-36	36	18	36	134
3ACI-25-11-2000-40	40	20	40	166
3ACI-25-11-2200-48	48	22	48	201
3ACI-25-11-2400-48	48	24	48	226
3ACI-25-11-2600-48	48	26	48	247
3ACI-25-11-2800-48	48	28	48	268
3ACI-25-11-3000-48	48	30	48	436

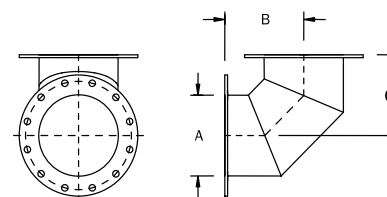


90° Elbow (Short Radius) • Flanged Both Ends

Part Number	Tube/Mitred	A	B	C	WT
3ACI-26-400	Tube	4	7.5	7.5	16
3ACI-26-500	Tube	5	9	9	20
3ACI-26-600	Tube	6	11	11	24
3ACI-26-M-800	Mitred	8	8	8	34
3ACI-26-M-1000	Mitred	10	10	10	47
3ACI-26-M-1200	Mitred	12	12	12	67
3ACI-26-M-1400	Mitred	14	14	14	80
3ACI-26-M-1600	Mitred	16	16	16	111
3ACI-26-M-1800	Mitred	18	18	18	124
3ACI-26-M-2000	Mitred	20	20	20	150
3ACI-26-M-2200	Mitred	22	22	22	171
3ACI-26-M-2400	Mitred	24	24	24	203
3ACI-26-M-2600	Mitred	26	26	26	232
3ACI-26-M-2800	Mitred	28	28	28	262
3ACI-26-M-3000	Mitred	30	30	30	447



Tube Elbow



Mitred Elbow

All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details. Available in stainless steel. Call Product Specialist for details. Connection(s) are ANSI steel plate flanges unless otherwise specified.

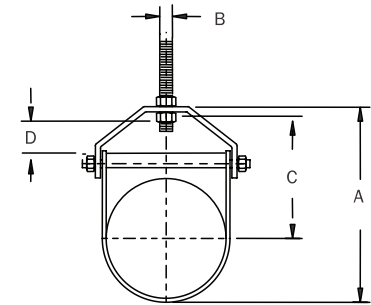
27 • PIPE HANGERS

Clevis & Pear Shaped Pipe Hangers

Pipe Hangers • Clevis

Part Number	Pipe Size	A	B	C	D	Bolt Size	WT
3ACI-27-1-150	1.5	4.5	.38	3.0	1.63	.25	730
3ACI-27-1-200	2	4.63	.38	2.94	1.31	.25	730
3ACI-27-1-250	2.5	6	.50	3.88	1.75	.38	1,350
3ACI-27-1-300	3	6.69	.50	4.25	1.75	.38	1,350
3ACI-27-1-350	3.5	7.19	.50	4.56	1.75	.38	1,430
3ACI-27-1-400	4	8.19	.63	5.06	2.06	.38	1,430
3ACI-27-1-500	5	9.5	.63	5.88	2.06	.50	1,940
3ACI-27-1-600	6	10.69	.75	6.31	2.25	.50	2,000
3ACI-27-1-800	8	13.75	.88	8.38	2.50	.63	3,600
3ACI-27-1-1000	10	16.44	.88	9.88	2.50	.75	3,800
3ACI-27-1-1200	12	18.63	.88	11.06	2.94	.75	4,200
3ACI-27-1-1400	14	20.88	1.0	12.44	3.19	.88	4,600
3ACI-27-1-1600	16	23.31	1.0	13.88	3.19	.88	4,800
3ACI-27-1-1800	18	25.25	1.0	14.69	2.94	.88	4,800
3ACI-27-1-2000	20	29.31	1.25	17.38	4.19	1.0	4,800
3ACI-27-1-2400	24	33.19	1.5	19.63	3.75	1.0	4,800

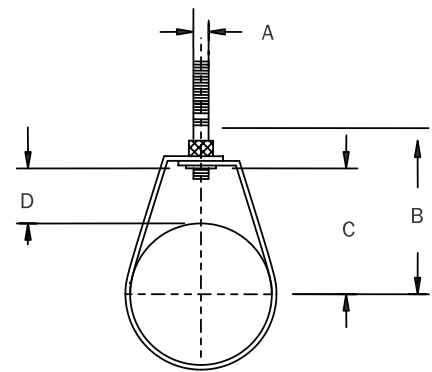
Heavy plate steel construction.



Pipe Hangers • Pear Shaped

Part Number	Pipe Size	A	B	C	D	WT
3ACI-27-2-150	1.5	.38	2.88	2.0	1.0	300
3ACI-27-2-200	2	.38	3.31	2.44	1.25	300
3ACI-27-2-250	2.5	.50	3.94	2.94	1.5	525
3ACI-27-2-300	3	.50	4.25	3.25	1.5	525
3ACI-27-2-400	4	.63	5.75	4.25	2.0	650
3ACI-27-2-500	5	.63	6.31	4.81	2.06	1,000
3ACI-27-2-600	6	.75	6.88	5.38	2.06	1,000
3ACI-27-2-800	8	.88	8.56	6.94	2.63	1,000

Adjustable

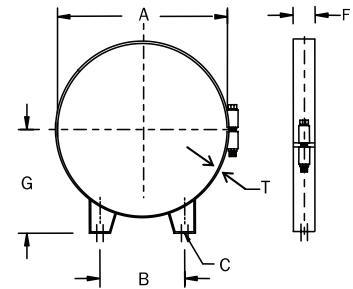


28 • BRACKETS

Round Mounting Brackets

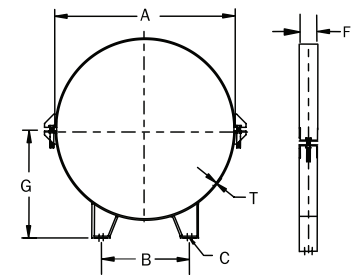
Single Piece Construction** • Carbon Steel

Part Number	A (ID)	B	C	F	G	T	WT
3ACI-28-400	4	2.25	.38	1.00	2.62	.125	0.5
3ACI-28-450	4.5	2.50	.38	1.00	2.86	.125	0.6
3ACI-28-500	5	3.50	.38	1.00	3.12	.125	0.7
3ACI-28-550	5.5	3.00	.38	1.00	3.33	.125	0.7
3ACI-28-600	6	3.00	.38	1.00	3.56	.125	0.8
3ACI-28-650	6.5	3.75	.38	1.00	3.83	.125	0.8
3ACI-28-700	7	4.50	.38	1.00	4.06	.125	1.0
3ACI-28-800	8	4.25	.38	1.25	5.00	.125	1.5
3ACI-28-850	8.5	4.25	.38	1.25	5.25	.125	1.5
3ACI-28-900	9	4.50	.38	1.25	5.50	.125	1.7
3ACI-28-1000	10	5.00	.38	1.25	6.00	.125	1.7
3ACI-28-1100	11	5.00	.38	1.25	6.50	.125	1.8
3ACI-28-1200	12	5.00	.38	1.25	7.00	.125	2.0
3ACI-28-1400	14	6.00	.41	1.25	8.12	.125	3.0



Two-Piece Split Design** • Carbon Steel

Part Number	A (ID)	B	C	F	G	T	WT
3ACI-28-1600	16	8	.50	2.0	8.9	.134	5.5
3ACI-28-1800	18	9	.50	2.0	11.12	.134	6
3ACI-28-2000	20	10	.50	2.5	12.06	.134	9.5
3ACI-28-2200	22	11	.50	2.5	13.63	.134	10.5
3ACI-28-2400	24	12	.63	2.5	14.56	.134	11.5
3ACI-28-2600	26	13	.63	3.0	15.44	.190	17.5
3ACI-28-2800	28	14	.63	3.0	16.31	.190	24
3ACI-28-3000	30	15	.63	4.0	17.25	.190	27
3ACI-28-3600	36	18	.63	4.0	20.12	.190	33
3ACI-28-4200	42	21	.75	4.0	23.38	.190	44
3ACI-28-4500	45	22.5	1.0	4.0	25.19	.190	50
3ACI-28-4800	48	24	1.0	4.0	26.50	.250	63



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
Call Product Specialist for details.

Available in stainless steel. Call Product Specialist for details.

**28 Series Brackets are not to be used for vertical installations. For vertical applications, we recommend the installation of 29 Series Brackets (found in the Silencer Catalog).

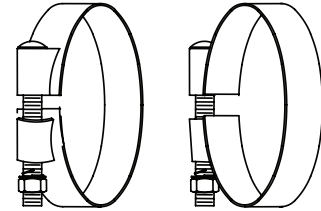
We do not recommend using 28 Series Brackets to hang a pipe or silencer.

31-35 • CLAMPS

Circle, Round Bolt, TruSeal, and V-Band Clamps

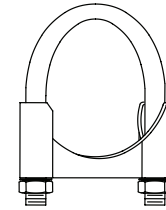
Full Circle • Carbon Steel

Part Number	Size	Part Number	Size	Part Number	Size
3ACI-31-300	3	3ACI-31-600	6	3ACI-31-1200	12
3ACI-31-350	3.5	3ACI-31-663	6.63	3ACI-31-1275	12.75
3ACI-31-400	4	3ACI-31-800	8	3ACI-31-1400	14
3ACI-31-450	4.5	3ACI-31-863	8.63	3ACI-31-1600	16
3ACI-31-500	5	3ACI-31-1000	10		
3ACI-31-550	5.5	3ACI-31-1075	10.75		



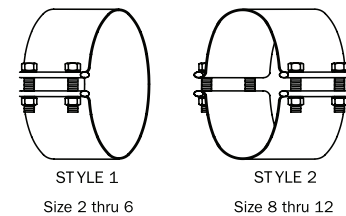
Round Bolt • Carbon Steel

Part Number	Size	Bolt Size	Part Number	Size	Bolt Size
3ACI-32-200	2	.31	3ACI-32-450	4.5	.38
3ACI-32-225	2.25	.31	3ACI-32-500	5	.38
3ACI-32-250	2.5	.31	3ACI-32-550	5.5	.38
3ACI-32-300	3	.31	3ACI-32-600	6	.38
3ACI-32-350	3.5	.38	3ACI-32-800	8	.50
3ACI-32-400	4	.38	3ACI-32-1000	10	.50



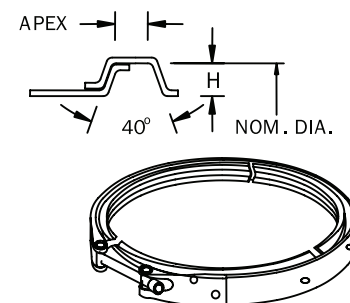
TruSeal Style • Stainless Steel

Part Number	Size	Part Number	Size
3ACI-33-200	2	3ACI-33-450	4.5
3ACI-33-225	2.25	3ACI-33-500	5
3ACI-33-250	2.5	3ACI-33-600	6
3ACI-33-300	3	3ACI-33-800	8
3ACI-33-350	3.5	3ACI-33-1000	10
3ACI-33-400	4	3ACI-33-1200	12



Stainless V-Band Manifold

Part Number	Tube Size	Apex	Diameter	H	Application
3ACI-35-JD-250	2.5	.345	3.13	.14	John Deere
3ACI-35-JD-400	4	.207	4.81	.28	John Deere
3ACI-35-400	4	.406	4.75	.28	Cummins L10
3ACI-35-401	4	.207	4.81	.28	Detroit 6-71, 12V71
3ACI-35-402	4	.156	4.61	.10	Airesearch TE0699
3ACI-35-450	4.5	.262	5.25	.14	AIR T7899, TH08A64
3ACI-35-500	5	.400	5.88	.28	Cummins VT50
3ACI-35-501	5	.262	5.65	.14	CAT Turbo
3ACI-35-502	5	.280	5.92	.30	Detroit Diesel
3ACI-35-550	5.5	.265	6.25	.15	16V-2000 (1000kW)



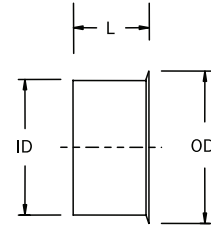
All dimensions are in inches. Larger sizes available. Call Product Specialist for details. Stainless steel available.

36-40 • FLANGES

Flared, Machined Turbo, and Engine Flanges

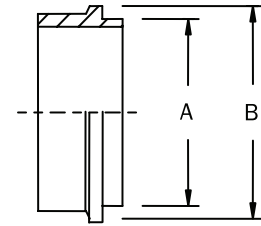
Flared

Part Number	Inner Dia	Outer Dia	Length	V-Band Clamp
3ACI-36-JD-250	2.5	3.13	3	35-JD-250
3ACI-36-300	3	3.63	1.5	Call Product Specialist
3ACI-36-350	3.5	4.25	1.5	Call Product Specialist
3ACI-36-JD-400	3.9	4.41	3	35-JD-400
3ACI-36-400	4	4.63	1.5	35-400
3ACI-36-500	5	5.75	3	35-500



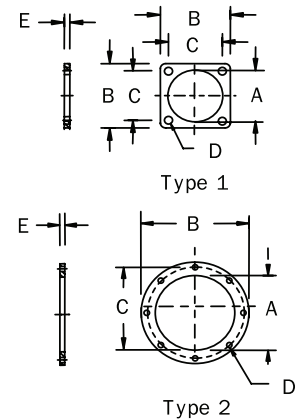
Machined Turbo • (From 1018 Heavy Wall Tubing)

Part Number	Nom. Size	A	B	Clamp	Application
3ACI-37-450	5	4.5	5	35-450	See Footnote†
3ACI-37-550	6	5.3	6.2	35-550	DA 16V2000



Standard Engine (Caterpillar, MTU, Cummins)

Part Number	Engine	Type	A (ID)	B (OD)	C (BC)	D (Dia)	Holes	E (THK)	WT
3ACI-38-340	CAT	1	3.0	5.5	4.13	.56	4	.5	3
3ACI-38-400	CAT	1	4.1	5.5	4.13	.56	4	.5	2
3ACI-38-500	CAT	1	5.1	6.5	5.00	.75	4	.5	3
3ACI-38-600	CAT	1	6.1	7.75	6.00	.75	4	.5	4
3ACI-38-800	CAT	2	8.1	11.0	9.88	.50	8	.5	6
3ACI-38-1000	CAT	2	10.1	13.5	12.44	.50	12	.5	9
3ACI-38-1200	CAT	2	12.1	16.0	14.80	.50	12	.5	12
3ACI-38-1400	CAT	2	14.2	18.5	16.93	.63	12	.5	15
3ACI-39-600	MTU	2	6.06	9.5	8.19	.44	6	.5	5
3ACI-39-800	MTU	2	8.1	11	9.88	.50	8	.5	6
3ACI-39-1000	MTU	2	10.0	13	11.88	.63	8	.5	7
3ACI-40-600	CUM	2	6.1	8.0	7.19	.44	8	.5	3



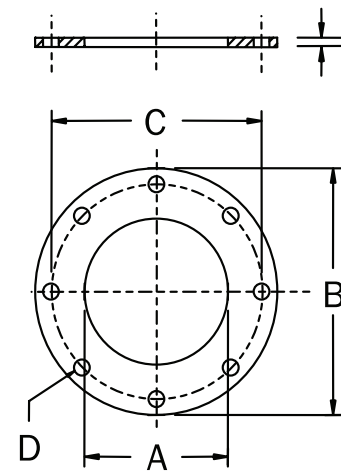
† 37-450 used on the following engines: Airesearch TV801, T1885, T18A40, All Schwitzer, DDA Turbo, and Cummins K.

41 • FLANGES

ANSI Pattern Flanges

ANSI Pattern Steel Plate • (Carbon Steel)

Part Number	Pipe/Tube	A (D)	B (OD)	C (BC)	D (Dia)	Holes	E (THK)	WT
3ACI-41-T-200	Tube	2.00	6.0	4.75	.75	4	0.5	3.2
3ACI-41-P-200	Pipe	2.38	6.0	4.75	.75	4	0.5	3
3ACI-41-T-250	Tube	2.50	7.0	5.50	.75	4	0.5	4.2
3ACI-41-P-250	Pipe	2.88	7.0	5.50	.75	4	0.5	4
3ACI-41-T-300	Tube	3.00	7.5	6.00	.75	4	0.5	4.7
3ACI-41-P-300	Pipe	3.50	7.5	6.00	.75	4	0.5	5.2
3ACI-41-T-350	Tube	3.50	8.5	7.00	.75	8	0.5	5.5
3ACI-41-P-350	Pipe	4.00	8.5	7.00	.75	8	0.5	5.5
3ACI-41-400	Tube	4.00	9.0	7.50	.75	8	0.5	7
3ACI-41-450	Tube	4.50	9.0	7.50	.75	8	0.5	6
3ACI-41-500	Tube	5.00	10.0	8.50	.88	8	0.5	7.5
3ACI-41-556	Tube	5.56	10.0	8.50	.88	8	0.5	7
3ACI-41-600	Tube	6.00	11.0	9.50	.88	8	0.5	8.5
3ACI-41-663	Tube	6.63	11.0	9.50	.88	8	0.5	7.5
3ACI-41-800	Tube	8.00	13.5	11.75	.88	8	0.5	12.5
3ACI-41-863	Tube	8.63	13.5	11.75	.88	8	0.5	11
3ACI-41-1000	Tube	10.00	16.0	14.25	1.0	12	0.5	18
3ACI-41-1075	Tube	10.75	16.0	14.25	1.0	12	0.5	17
3ACI-41-1200	Tube	12.00	19.0	17.00	1.0	12	0.5	21
3ACI-41-1275	Tube	12.75	19.0	17.00	1.0	12	0.5	20
3ACI-41-1400	Tube	14.10	21.0	18.75	1.13	12	0.5	24
3ACI-41-1600	Tube	16.10	23.5	21.25	1.13	16	0.5	28
3ACI-41-1800	Tube	18.10	25.0	22.75	1.25	16	0.5	30
3ACI-41-2000	Tube	20.10	27.5	25.00	1.25	20	0.5	34
3ACI-41-2200	Tube	22.10	29.5	27.25	1.38	20	0.5	36
3ACI-41-2400	Tube	24.10	32.0	29.50	1.38	20	0.5	38
3ACI-41-2600	Tube	26.10	34.3	31.75	1.38	24	0.5	43
3ACI-41-2800	Tube	28.10	36.5	34.00	1.38	28	0.5	49
3ACI-41-3000	Tube	30.10	38.8	36.00	1.38	28	0.5	55



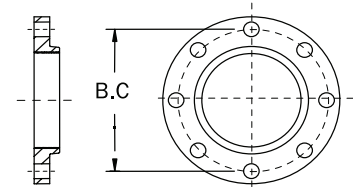
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. Call Product Specialist for details.

45-46 · FLANGES

ANSI Threaded Raised

Part Number	Thread Size	BC Diameter
3ACI-45-150	1.5	3.88
3ACI-45-200	2	4.75
3ACI-45-250	2.5	5.5
3ACI-45-300	3	6
3ACI-45-350	3.5	7
3ACI-45-400	4	7.5
3ACI-45-500	5	8.5
3ACI-45-600	6	9.5
3ACI-45-800	8	11.75

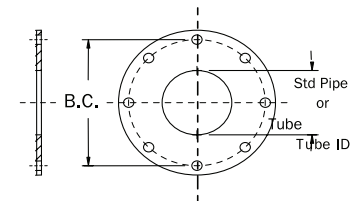
NPT Standard Pipe Threads.



ANSI Reducing/Increasing

Part Number (Pipe)	Part Number (Tube)	Reducing Size	IPS Size	BC Diameter	WT
3ACI-46-P-430	46-T-430	4 x 3	3	7.5	8
3ACI-46-P-435	46-T-435	4 x 3.5	3.5	7.5	8
3ACI-46-P-535	46-T-535	5 x 3.5	3.5	8.5	9
3ACI-46-P-540	46-T-540	5 x 4	4	8.5	9
3ACI-46-P-640	46-T-640	6 x 4	4	9.5	11
3ACI-46-P-650	46-T-650	6 x 5	5	9.5	10
3ACI-46-P-850	46-T-850	8 x 5	5	11.75	17
3ACI-46-P-860	46-T-860	8 x 6	6	11.75	16
3ACI-46-P-1060	46-T-1060	10 x 6	6	14.25	23
3ACI-46-P-1080	46-T-1080	10 x 8	8	14.25	19
3ACI-46-P-1280	46-T-1280	12 x 8	8	17	32
3ACI-46-P-1210	46-T-1210	12 x 10	10	17	28
3ACI-46-P-1410	46-T-1410	14 x 10	10	18.75	36
3ACI-46-P-1412	46-T-1412	14 x 12	12	18.75	31

Flanges (.50") thick carbon steel plate.



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
Call Product Specialist for details.
Available in stainless steel. Call Product Specialist for details.

47-48 • GASKET SPECIFICATIONS

Gaskets - Technical Specifications

Fiber Full Face Gaskets • Temperature Rating: 1800° F

Physical Test Properties	Specification Range	Nominal Test Values	Test Method
Compression @ 34.5 MPa (5000 psi)	25-40%	35%	ASTM F-806
Recovery @ 34.5 MPa (5000 psi)	30% Min	34%	ASTM F-806
Ignition Loss (1 hour @ 1500° F)	30% Max	27%	ASTM F-495
Air Aging 70 hrs @ 540° C (1000° F) Thickness Loss	0-10%	6%	ASTM D-573
Air Aging 70 hrs @ 540° C (1000° F) Weight Loss	20% Max	11%	
Fluid Immersions (22 hours @ 78° - 85° F)			
Fluid Resistance ASTM IRM903 Oil - Thickness Change	12-20%	12%	ASTM F-146
Fluid Resistance ASTM IRM903 Oil - Weight Change	70% Max	58%	ASTM F-146
Fluid Resistance ASTM Fuel B - Thickness Change	10-20%	15%	ASTM F-146
Fluid Resistance ASTM Fuel B - Weight Change	50% Max	45%	ASTM F-146

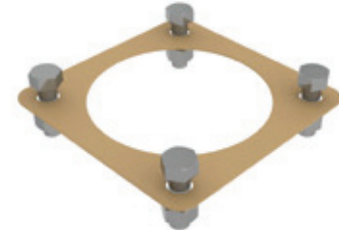
GTE/SILEX full face gaskets use a 0.008" ETP (electrolytic tin plate) low carbon steel core. The core is then laminated on two sides with a facing composed of heat resistant vermiculite and ceramic fibers chemically bonded with an NBR binder. This gasket is designed for hot gas applications where extreme heat is present. The fiber facings are mechanically bonded without the use of any adhesives, providing stability and integrity even when exposed to high heat, scrubbing, and vibration. Gasket is asbestos free. Its color is light brown.

47 • NBG KITS

Fiber Full Face Engine Gasket

Part Number	Engine	Size	Bolt Dia	Bolt Length	Bolt/Nuts per Set	Gasket per Set
3ACI-47-CAT-400-FF	CAT	4	.50	2	4	1
3ACI-47-CAT-500-FF	CAT	5	.63	2	4	1
3ACI-47-CAT-600-FF	CAT	6	.63	2	4	1
3ACI-47-CAT-800-FF	CAT	8	.38	2.5	8	1
3ACI-47-CAT-1000-FF	CAT	10	.38	2.5	12	1
3ACI-47-CAT-1200-FF	CAT	12	.38	2.5	12	1
3ACI-47-CAT-1400-FF	CAT	14	.50	2	12	1
3ACI-47-CUM-600-FF	CUM	6	.38	2.5	8	1
3ACI-47-MTU-600-FF	MTU	6	.38	2.5	6	1
3ACI-47-MTU-1000-FF	MTU	10	.50	2	8	1

Grade 2 Zinc plated nuts/bolts. Available in 304 and 316 stainless steel. Consult Product Specialist for details.
Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.



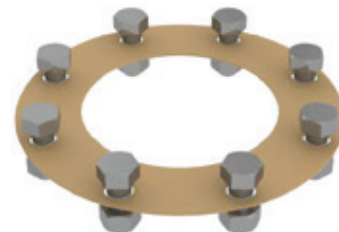
6" CAT flange shown

Fiber Full Face ANSI Gasket

Part Number	Size	Bolt Dia	Bolt Length	Bolt/Nuts per Set	Gasket per Set
3ACI-47-FF-200	2	.62	2	4	1
3ACI-47-FF-250	2.5	.62	2	4	1
3ACI-47-FF-300	3	.62	2	4	1
3ACI-47-FF-350	3.5	.62	2	8	1
3ACI-47-FF-400	4	.62	2	8	1
3ACI-47-FF-500	5	.75	2	8	1
3ACI-47-FF-600	6	.75	2	8	1
3ACI-47-FF-800	8	.75	2	8	1
3ACI-47-FF-1000	10	.88	2.5	12	1
3ACI-47-FF-1200	12	.88	2.5	12	1
3ACI-47-FF-1400	14	1.0	2.5	12	1
3ACI-47-FF-1600	16	1.0	2.5	16	1
3ACI-47-FF-1800	18	1.13	3	16	1
3ACI-47-FF-2000	20	1.13	3	20	1
3ACI-47-FF-2200	22	1.25	3	20	1
3ACI-47-FF-2400	24	1.25	3	20	1
3ACI-47-FF-2600	26	1.25	3	24	1
3ACI-47-FF-2800	28	1.25	3	28	1
3ACI-47-FF-3000	30	1.25	3	28	1
3ACI-47-FF-3400	34	1.50	3.75	32	1
3ACI-47-FF-3600	36	1.50	3.75	32	1

Grade 2 Zinc plated nuts/bolts. Available in 304 and 316 stainless steel. Consult Product Specialist for details.
Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.
Sizes 26" and up gaskets will come in two pieces.

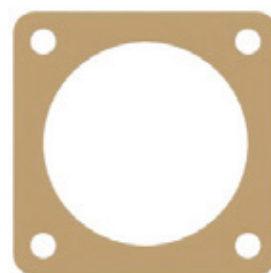
All dimensions are in inches. Larger sizes available. Call Product Specialist for details.
Available in stainless steel. Call Product Specialist for details.



48 • GASKETS

Fiber Full Face Engine Gasket

Part Number	Engine	Size	ID	OD	THK
3ACI-48-CAT-400-FF	CAT	4	4.1	5.5	0.0625
3ACI-48-CAT-500-FF	CAT	5	5.1	6.5	0.0625
3ACI-48-CAT-600-FF	CAT	6	6.1	7.8	0.0625
3ACI-48-CAT-800-FF	CAT	8	8.1	11	0.0625
3ACI-48-CAT-1000-FF	CAT	10	10.1	13.5	0.0625
3ACI-48-CAT-1200-FF	CAT	12	12.1	16	0.0625
3ACI-48-CAT-1400-FF	CAT	14	16.93	18.5	0.0625
3ACI-48-CUM-600-FF	CUM	6	6	8	0.0625
3ACI-48-MTU-600-FF	MTU	6	6.1	10.5	0.0625
3ACI-48-MTU-1000-FF	MTU	10	10	13	0.0625



6" CAT flange shown

Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.

Fiber Full Face ANSI Gasket

Part Number	Size	ID	OD	THK
3ACI-48-FF-400	4	4.5	9	0.0625
3ACI-48-FF-500	5	5.6	10	0.0625
3ACI-48-FF-600	6	6.6	11	0.0625
3ACI-48-FF-800	8	8.6	13.5	0.0625
3ACI-48-FF-1000	10	10.8	16	0.0625
3ACI-48-FF-1200	12	12.8	19	0.0625
3ACI-48-FF-1400	14	14	21	0.0625
3ACI-48-FF-1600	16	16	23.5	0.0625
3ACI-48-FF-1800	18	18	25	0.0625
3ACI-48-FF-2000	20	20	27.5	0.0625
3ACI-48-FF-2200	22	22	29.5	0.0625
3ACI-48-FF-2400	24	24	32	0.0625
3ACI-48-FF-2600	26	26	34.5	0.0625
3ACI-48-FF-2800	28	28	36.5	0.0625
3ACI-48-FF-3000	30	30	38.8	0.0625
3ACI-48-FF-3400	34	34	43.8	0.0625
3ACI-48-FF-3600	36	36	46	0.0625



Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.

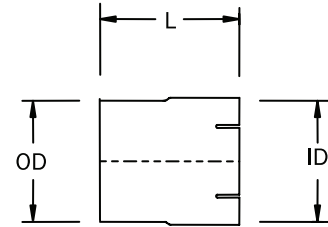
All dimensions are in inches. Larger sizes available. Call Product Specialist for details.

49-51 • TUBE FITTINGS

Cuffed One End • (Flex Hose Couplers/Stacks)

Part Number	Tube Size	L	WT
3ACI-49-200	2	4.5	.46
3ACI-49-250	2.5	4.5	.57
3ACI-49-300	3	5	.77
3ACI-49-350	3.5	5.5	1.00
3ACI-49-400	4	6	1.25

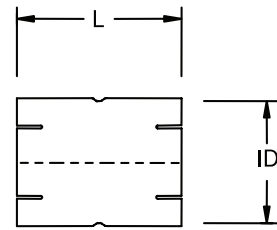
Part Number	Tube Size	L	WT
3ACI-49-500	5	6	1.58
3ACI-49-600	6	6	1.89
3ACI-49-800	8	8	2.33
3ACI-49-1000	10	8	7
3ACI-49-1200	12	10	10



Cuffed Both Ends • (Straight Tube Couplers)

Part Number	Tube Size	L	WT
3ACI-50-200	2	4.5	.47
3ACI-50-250	2.5	4.5	.58
3ACI-50-300	3	5	.77
3ACI-50-350	3.5	5.5	1.01
3ACI-50-400	4	6.5	1.36
3ACI-50-450	4.5	6.5	1.55

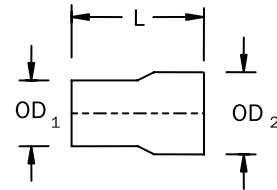
Part Number	Tube Size	L	WT
3ACI-50-500	5	6.5	1.69
3ACI-50-600	6	6.5	2.02
3ACI-50-800	8	8.5	4
3ACI-50-1000	10	8.5	5
3ACI-50-1200	12	8.5	7



Reducer/Expander • Style 1

Part Number	Tube Size	L	WT
3ACI-51-2-225-1	2 X 2.25	6	.65
3ACI-51-2-250-1	2 X 2.5	6	.70
3ACI-51-25-300-1	2.5 X 3	6	.86
3ACI-51-3-350-1	3 X 3.5	6	1.05
3ACI-51-3-400-1	3 X 4	6.5	1.17
3ACI-51-35-400-1	3.5 X 4	6	1.17

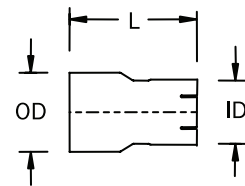
Part Number	Tube Size	L	WT
3ACI-51-35-450-1	3.5 X 4.5	7	1.45
3ACI-51-35-500-1	3.5 X 5	8	1.68
3ACI-51-4-450-1	4 X 4.5	6.5	1.41
3ACI-51-4-500-1	4 X 5	8	1.88
3ACI-51-5-550-1	5 X 5.5	6.5	1.79
3ACI-51-5-600-1	5 X 6	8	2.29



Reducer/Expander • Style 2

Part Number	Tube Size	L	WT
3ACI-51-2-225-2	2 X 2.25	6	.67
3ACI-51-2-250-2	2 X 2.5	6	.71
3ACI-51-25-300-2	2.5 X 3	6	.85
3ACI-51-3-350-2	3 X 3.5	6	1.00
3ACI-51-3-400-2	3 X 4	6.5	1.28
3ACI-51-35-400-2	3.5 X 4	6	1.17

Part Number	Tube Size	L	WT
3ACI-51-35-450-2	3.5 X 4.5	7	1.49
3ACI-51-35-500-2	3.5 X 5	8	1.64
3ACI-51-4-450-2	4 X 4.5	6.5	1.50
3ACI-51-4-500-2	4 X 5	8	1.88
3ACI-51-5-550-2	5 X 5.5	6.5	1.90
3ACI-51-5-600-2	5 X 6	8	2.46



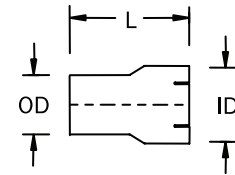
Available in stainless steel. Call Product Specialist for details.

51-52 • TUBE FITTINGS

Reducer/Expander • Style 3

Part Number	Tube Size	L	WT
3ACI-51-2-225-3	2 X 2.25	6	.66
3ACI-51-2-250-3	2 X 2.5	6	.69
3ACI-51-25-300-3	2.5 X 3	6	.84
3ACI-51-3-350-3	3 X 3.5	6	10.9
3ACI-51-3-400-3	3 X 4	6.5	1.18
3ACI-51-35-400-3	3.5 X 4	6	1.18

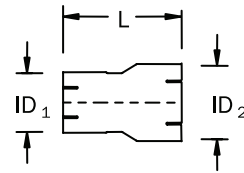
Part Number	Tube Size	L	WT
3ACI-51-35-450-3	3.5 X 4.5	7	1.42
3ACI-51-35-500-3	3.5 X 5	8	1.79
3ACI-51-4-450-3	4 X 4.5	6.5	1.46
3ACI-51-4-500-3	4 X 5	8	1.93
3ACI-51-5-550-3	5 X 5.5	6.5	1.82
3ACI-51-5-600-3	5 X 6	8	2.69



Reducer/Expander • Style 4

Part Number	Tube Size	L	WT
3ACI-51-2-225-4	2 X 2.25	6	.66
3ACI-51-2-250-4	2 X 2.5	6	.72
3ACI-51-25-300-4	2.5 X 3	6	.88
3ACI-51-3-350-4	3 X 3.5	6	1.03
3ACI-51-3-400-4	3 X 4	6.5	1.18
3ACI-51-35-400-4	3.5 X 4	6	1.19

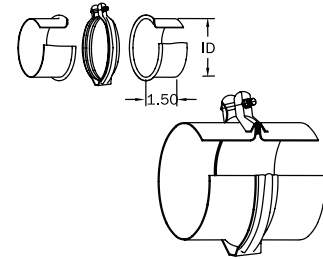
Part Number	Tube Size	L	WT
3ACI-51-35-450-4	3.5 X 4.5	7	1.46
3ACI-51-35-500-4	3.5 X 5	8	1.71
3ACI-51-4-450-4	4 X 4.5	6.5	1.48
3ACI-51-4-500-4	4 X 5	8	1.89
3ACI-51-5-550-4	5 X 5.5	6.5	1.79
3ACI-51-5-600-4	5 X 6	8	2.12



Stack Breaker • (Includes 2 Flanges and Clamp)

Flange Number	WT	Clamp Number	WT
3ACI-52-200	.23	52C-200	.17
3ACI-52-250	.29	52C-250	.20
3ACI-52-300	.34	52C-300	.22
3ACI-52-350	.40	52C-350	.25
3ACI-52-400	.45	52C-400	.28
3ACI-52-500	.56	52C-500	.33
3ACI-52-600	.66	52C-600	.39

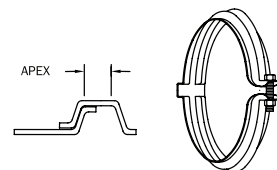
Set Number (Flanges & Clamps)	WT	ID
3ACI-52E-200	.64	2
3ACI-52E-250	.77	2.5
3ACI-52E-300	.90	3
3ACI-52E-350	1.0	3.5
3ACI-52E-400	1.2	4
3ACI-52E-500	1.5	5
3ACI-52E-600	1.7	6



V-Clamp With Hinge • Open Ear Style

Part Number	Tube Size	Apex	WT
3ACI-52C-200	2.0	.207	.17
3ACI-52C-250	2.5	.207	.20
3ACI-52C-300	3.0	.207	.22
3ACI-52C-350	3.5	.207	.25
3ACI-52C-400	4.0	.207	.28

Part Number	Tube Size	Apex	WT
3ACI-52C-450	4.5	.207	
3ACI-52C-500	5.0	.207	.33
3ACI-52C-550	5.5	.207	
3ACI-52C-600	6.0	.207	.39



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
Call Product Specialist for details.
Available in 304 stainless steel. Call Product Specialist for details.

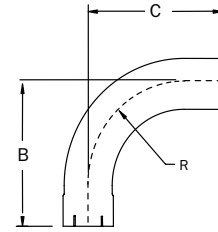
53-55 • ELBOWS

90° Elbows

90° Tube Elbow (Long Radius) • Cuffed One End

Part Number	Size	B/C	R	WT
3ACI-53-200	2	6	4	1
3ACI-53-225	2.25	6.5	4.5	1.5
3ACI-53-250	2.5	7	5	1.5
3ACI-53-275	2.75	8	5.5	1.7
3ACI-53-300	3	8.5	6	2.3

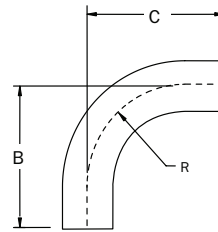
Part Number	Size	B/C	R	WT
3ACI-53-350	3.5	10	7	3.3
3ACI-53-400	4	11.5	8	4
3ACI-53-450	4.5	13	9	5.5
3ACI-53-500	5	14	10	6.5
3ACI-53-600	6	17	12	9.5



90° Tube Elbow (Long Radius) • OD Tube Both Ends

Part Number	Size	B/C	R	WT
3ACI-54-200	2	6	4	1
3ACI-54-225	2.25	6.5	4.5	1.5
3ACI-54-250	2.5	7	5	1.5
3ACI-54-275	2.75	8	5.5	1.7
3ACI-54-300	3	8.5	6	2.3

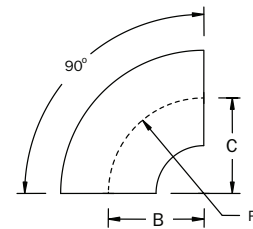
Part Number	Size	B/C	R	WT
3ACI-54-350	3.5	10	7	3.3
3ACI-54-400	4	11.5	8	4
3ACI-54-450	4.5	13	9	5.5
3ACI-54-500	5	14	10	6.5
3ACI-54-600	6	17	12	9.5



90° Tube Elbow (Short Radius) • Tangent Cut

Part Number	Size	B/C	R	WT
3ACI-55-200	2	2	2	0.3
3ACI-55-225	2.25	2.25	2.25	0.4
3ACI-55-250	2.5	2.5	2.5	0.5
3ACI-55-275	2.75	2.75	2.75	0.6
3ACI-55-300	3	3	3	0.7

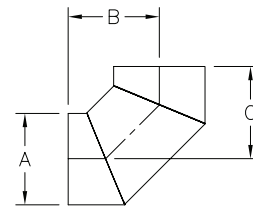
Part Number	Size	B/C	R	WT
3ACI-55-350	3.5	3.5	3.5	1
3ACI-55-400	4	4	4	1.3
3ACI-55-450	4.5	4.5	4.5	1.8
3ACI-55-500	5	5	5	2
3ACI-55-600	6	6	6	6



90° Mitred Elbow (Short Radius) • Tangent Cut

Part Number	A	B	C	WT
3ACI-55-M-800	8	8	8	10
3ACI-55-M-1000	10	10	10	16
3ACI-55-M-1200	12	12	12	22
3ACI-55-M-1400	14	14	14	30
3ACI-55-M-1600	16	16	16	50
3ACI-55-M-1800	18	18	18	64

Part Number	A	B	C	WT
3ACI-55-M-2000	20	20	20	79
3ACI-55-M-2200	22	22	22	95
3ACI-55-M-2400	24	24	24	113
3ACI-55-M-2600	26	26	26	133
3ACI-55-M-2800	28	28	28	154
3ACI-55-M-3000	30	30	30	327



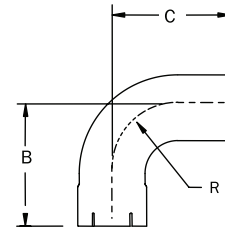
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
Call Product Specialist for details.
Available in stainless steel. Call Product Specialist for details.

56-59 • ELBOWS

90° Tube Elbow (Short Radius) • Cuffed One End

Part Number	Size	B/C	R	WT
3ACI-56-200	2	4	2	0.6
3ACI-56-225	2.25	4	2.25	0.8
3ACI-56-250	2.5	4.5	2.5	1
3ACI-56-275	2.75	5	2.75	1.4
3ACI-56-300	3	5.5	3	1.6

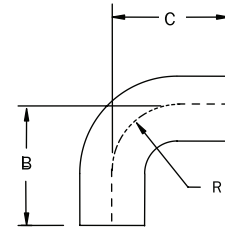
Part Number	Size	B/C	R	WT
3ACI-56-350	3.5	6.5	3.5	2.2
3ACI-56-400	4	7.5	4	2.8
3ACI-56-450	4.5	8	4.5	3.4
3ACI-56-500	5	9	5	4.3
3ACI-56-600	6	11	6	6.3



90° Tube Elbow (Short Radius) • OD Tube Both Ends

Part Number	Size	B/C	R	WT
3ACI-57-200	2	4	2	0.7
3ACI-57-225	2.25	4	2.25	0.8
3ACI-57-250	2.5	4.5	2.5	1
3ACI-57-275	2.75	5	2.75	1.3
3ACI-57-300	3	5.5	3	1.5

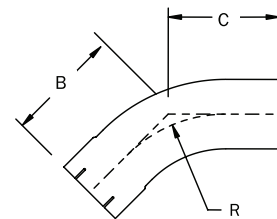
Part Number	Size	B/C	R	WT
3ACI-57-350	3.5	6.5	3.5	2.2
3ACI-57-400	4	7.5	4	2.7
3ACI-57-450	4.5	8	4.5	3.3
3ACI-57-500	5	9	5	4.3
3ACI-57-600	6	11	6	6.5



45° Tube Elbow (Long Radius) • Cuffed One End

Part Number	Size	B/C	R	WT
3ACI-58-200	2	4	4	0.8
3ACI-58-225	2.25	4.5	4.5	1
3ACI-58-250	2.5	5	5	1.4
3ACI-58-275	2.75	5.5	5.5	1.6
3ACI-58-300	3	5.5	6	1.7

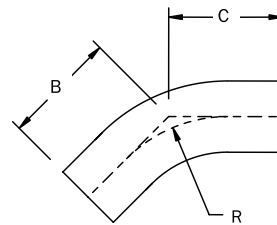
Part Number	Size	B/C	R	WT
3ACI-58-350	3.5	6.5	7	2.5
3ACI-58-400	4	7	8	2.8
3ACI-58-450	4.5	7.5	9	3.6
3ACI-58-500	5	8	10	4.3
3ACI-58-600	6	10	12	6.7



45° Tube Elbow (Long Radius) • OD Tube Both Ends

Part Number	Size	B/C	R	WT
3ACI-59-200	2	4	4	0.8
3ACI-59-225	2.25	4.5	4.5	1.1
3ACI-59-250	2.5	5	5	1.2
3ACI-59-275	2.75	5.5	5.5	1.5
3ACI-59-300	3	5.5	6	1.8

Part Number	Size	B/C	R	WT
3ACI-59-350	3.5	6.5	7	2.3
3ACI-59-400	4	7	8	2.8
3ACI-59-450	4.5	7.5	9	3.6
3ACI-59-500	5	8	10	4.2
3ACI-59-600	6	10	12	6.6



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
 Call Product Specialist for details.
 Available in 304 stainless steel. Call Product Specialist for details.
 Size 2.75" elbows are non-stock items. Call Product Specialist for details.

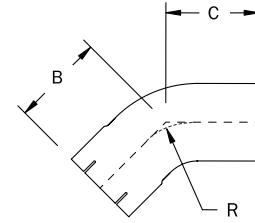
60-62 • ELBOWS

45° Elbows

45° Tube Elbow (Short Radius) • Cuffed One End

Part Number	Size	B/C	R	WT
3ACI-60-200	2	3	2	0.6
3ACI-60-225	2.25	3	2.25	0.7
3ACI-60-250	2.5	3.5	2.5	0.9
3ACI-60-275	2.75	3.75	2.75	1.1
3ACI-60-300	3	4	3	1.2

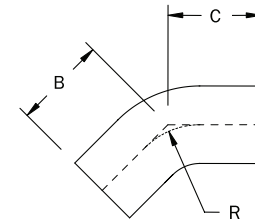
Part Number	Size	B/C	R	WT
3ACI-60-350	3.5	4.5	3.5	1.6
3ACI-60-400	4	5	4	2.0
3ACI-60-450	4.5	5.5	4.5	2.7
3ACI-60-500	5	6	5	3.2
3ACI-60-600	6	7	6	4.7



45° Tube Elbow (Short Radius) • OD Tube Both Ends

Part Number	Size	B/C	R	WT
3ACI-61-200	2	3	2	0.6
3ACI-61-225	2.25	3	2.25	0.7
3ACI-61-250	2.5	3.5	2.5	0.9
3ACI-61-275	2.75	3.75	2.75	1.1
3ACI-61-300	3	4	3	1.2

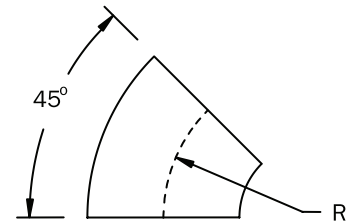
Part Number	Size	B/C	R	WT
3ACI-61-350	3.5	4.5	3.5	1.7
3ACI-61-400	4	5	4	2.1
3ACI-61-450	4.5	5.5	4.5	2.7
3ACI-61-500	5	6	5	3.2
3ACI-61-600	6	7	6	4.6



45° Tube Elbow (Short Radius) • Tangent Cut

Part Number	Size	R	WT
3ACI-62-200	2	2	.2
3ACI-62-225	2.25	2.25	.2
3ACI-62-250	2.5	2.5	.3
3ACI-62-275	2.75	2.75	.3
3ACI-62-300	3	3	.4

Part Number	Size	R	WT
3ACI-62-350	3.5	3.5	.5
3ACI-62-400	4	4	.7
3ACI-62-450	4.5	4.5	.8
3ACI-62-500	5	5	1.0
3ACI-62-600	6	6	1.5



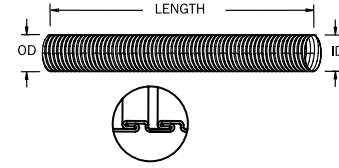
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
 Call Product Specialist for details.
 Available in 304 stainless steel. Call Product Specialist for details.
 Size 2.75" elbows are non-stock items. Call Product Specialist for details.

63-65 • FLEX TO TUBING

Interlocking Flex Hose • 304 Stainless Steel

Part Number	ID	OD	WT/FT
3ACI-63-200-S	2	2.16	1.5
3ACI-63-250-S	2.5	2.66	1.6
3ACI-63-300-S	3	3.16	1.8
3ACI-63-350-S	3.5	3.66	1.9
3ACI-63-400-S	4	4.16	2.5

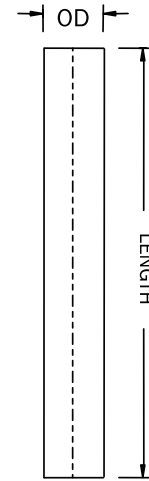
Part Number	ID	OD	WT/FT
3ACI-63-500-S	5	5.16	3.1
3ACI-63-600-S	6	6.16	3.7
3ACI-63-800-S	8	8.16	4.6
3ACI-63-1000-S	10	10.16	6.2



Tubing • Carbon Steel

Part Number	OD	Wall THK	WT/FT
3ACI-64-150	1.5	.065	1
3ACI-64-200	2	.065	1.3
3ACI-64-225	2.25	.065	1.5
3ACI-64-250	2.5	.065	1.7
3ACI-64-275	2.75	.065	1.9
3ACI-64-300	3	.065	2
3ACI-64-350	3.5	.065	2.4
3ACI-64-400	4	.065	2.7
3ACI-64-450	4.5	.065	3.1
3ACI-64-500	5	.065	3.4
3ACI-64-550	5.5	.065	3.4
3ACI-64-600	6	.083	5

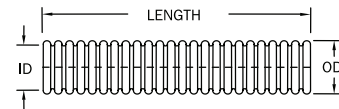
Part Number	OD	Wall THK	WT/FT
3ACI-64-800	8	.104	9
3ACI-64-1000	10	.104	14.3
3ACI-64-1200	12	.104	15
3ACI-64-1400	14	.104	16.2
3ACI-64-1600	16	.104	18.5
3ACI-64-1800	18	.1345	Call
3ACI-64-2000	20	.1345	Call
3ACI-64-2200	22	.1345	Call
3ACI-64-2400	24	.1345	Call
3ACI-64-2600	26	.1345	Call
3ACI-64-2800	28	.1345	Call
3ACI-64-3000	30	.1345	Call



Corrugated Flex Hose • 321 Stainless Steel

Part Number	ID	OD
3ACI-65-150-S	1.5	2.19
3ACI-65-200-S	2	2.75
3ACI-65-250-S	2.5	3.17
3ACI-65-300-S	3	3.75
3ACI-65-350-S	3.5	4.38
3ACI-65-400-S	4	4.82

Part Number	ID	OD
3ACI-65-500-S	5	5.87
3ACI-65-600-S	6	6.94
3ACI-65-800-S	8	9
3ACI-65-1000-S	10	11
3ACI-65-1200-S	12	13



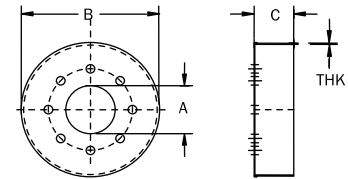
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available.
Call Product Specialist for details.
Available in stainless steel. Call Product Specialist for details.

80-82 • RAINGUARDS TO DRAIN COCKS

Rain Guards & Drain Cocks

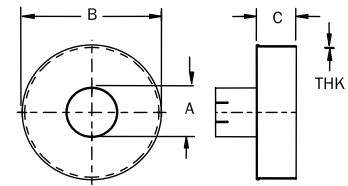
Rain Guards • ANSI Flange Style

Part Number	A	B	C	THK
3ACI-80-400	4	15	4	.083
3ACI-80-500	5	15	4	.083
3ACI-80-600	6	15	4	.083
3ACI-80-800	8	18	4	.083
3ACI-80-1000	10	20	4	.083
3ACI-80-1200	12	24	4	.083
3ACI-80-1400	14	24	4	.083



Rain Guards • ID Cuff Style

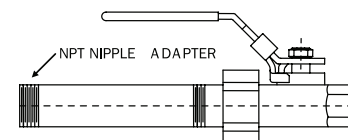
Part Number	A	B	C	THK
3ACI-81-400	4	15	4	.083
3ACI-81-450	4.5	15	4	.083
3ACI-81-500	5	15	4	.083
3ACI-81-556	5.56	15	4	.083
3ACI-81-600	6	15	4	.083
3ACI-81-663	6.63	15	4	.083
3ACI-81-800	8	18	4	.083
3ACI-81-863	8.63	18	4	.083
3ACI-81-1000	10	20	4	.083
3ACI-81-1075	10.75	20	4	.083
3ACI-81-1200	12	24	4	.083
3ACI-81-1275	12.75	24	4	.083
3ACI-81-1400	14	24	4	.083



Drain Cocks

Part Number	Port	Pipe Size
3ACI-82-0500	Full	0.50
3ACI-82-0750	Standard	0.75
3ACI-82-0100	Standard	1.00
3ACI-82-0150	Standard	1.50

Bronze ball valve (union x NPT female). Ball is chrome plated brass.
 Latch lock handle allows padlock.
 Includes 4" long NPT male nipple adapter.



103-106 • WRAP SPECIFICATIONS

Velcro Thermal Insulation Wrap-Technical Specifications

Custom Designed Flexible, Removable Insulation Blankets • Temperature Rating: 1100° F (593° C)

Properties	
Temperature Range	20° F - 1100° F process temperatures
Thickness	Approximately 1.00"
Insulation	1" thick, 9 lb. density insulation composed of 100% Type "E" fibers
Inner Jacket	20 oz. vermiculite coated thermal cloth
Outer Jacket	17 oz. gray or blue Teflon coated thermal cloth
Construction	10-ply 304 stainless steel thread
Attachments	High-temp Velcro strips and belts with stainless steel double D-Rings
Tags	Stainless Steel

Physical Properties	
Surface Temperature	Used on surfaces up to 1100° F
Fire Resistance	Incombustible
Density (approximate)	9 lbs./cubic ft.
Loss in Weight @ 1200° F	Up to 2%
Moisture Absorption	Negligible
Softening Point	1500° F
Strain Point	1100° F
Annealing Point	1200° F

Thermal Conductivity - K value at 11 lbs./cubic ft. (per ASTM C 177)

Mean Temperature	K btu-in/sq ft/hr/° F
300° F	0.40
500° F	0.50
700° F	0.65

Specification Compliance
MIL-1-24244
NRC-136
NFPA 255 & 110
UL 492 (Self Extinguishing)
US Coast Guard Certificate 164.009/94/0

Thermal wrap provides a tough, durable exterior that can be custom fitted for nearly any product or accessory. The wrap is composed of 1" thick, 9 pound insulation composed of 100% Type "E" fibers, fabricated in a mat form free of asbestos. The wrap is easy to install, and significantly reduces surface temperature. The color is typically gray.

Custom sizes and applications available. Call Product Specialist for details.
Wrap available for all GTE and Silex silencers. Refer to silencer section of catalog for information and pricing.
Velcro Thermal wraps can be used outside. Contact Product Specialist for details.

103-104 • ACCESSORY WRAP

Tubing • Wrap

Part Number	Tube/Pipe Size	Application	Part Number	Tube/Pipe Size	Application
3ACI-103-300-WW	3	Tube	3ACI-103-1200-WW	12	Tube
3ACI-103-350-WW	3.5	Tube & 3" Pipe	3ACI-103-1275-WW	12.75	Pipe
3ACI-103-400-WW	4	Tube & 3.5" Pipe	3ACI-103-1400-WW	14	Pipe
3ACI-103-450-WW	4.5	Pipe	3ACI-103-1600-WW	16	Pipe
3ACI-103-500-WW	5	Tube	3ACI-103-1800-WW	18	Pipe
3ACI-103-556-WW	5.56	Pipe	3ACI-103-2000-WW	20	Pipe
3ACI-103-600-WW	6	Tube	3ACI-103-2200-WW	22	Pipe
3ACI-103-663-WW	6.63	Pipe	3ACI-103-2400-WW	24	Pipe
3ACI-103-800-WW	8	Tube	3ACI-103-2600-WW	26	Pipe
3ACI-103-863-WW	8.63	Pipe	3ACI-103-2800-WW	28	Pipe
3ACI-103-1000-WW	10	Tube	3ACI-103-3000-WW	30	Pipe
3ACI-103-1075-WW	10.75	Pipe	3ACI-103-3600-WW	36	Pipe

Flex • Wrap

Part Number	Size ID	Part Number	Size ID
3ACI-104-F-300-WW	3	3ACI-104-F-600-WW	6
3ACI-104-F-350-WW	3.5	3ACI-104-F-800-WW	8
3ACI-104-F-400-WW	4	3ACI-104-F-1000-WW	10
3ACI-104-F-500-WW	5	3ACI-104-F-1200-WW	12

Bellows • Wrap

Part Number	Size ID	Part Number	Size ID
3ACI-104-B-300-WW	3	3ACI-104-B-1600-WW	16
3ACI-104-B-350-WW	3.5	3ACI-104-B-1800-WW	18
3ACI-104-B-400-WW	4	3ACI-104-B-2000-WW	20
3ACI-104-B-500-WW	5	3ACI-104-B-2200-WW	22
3ACI-104-B-600-WW	6	3ACI-104-B-2400-WW	24
3ACI-104-B-800-WW	8	3ACI-104-B-2600-WW	26
3ACI-104-B-1000-WW	10	3ACI-104-B-2800-WW	28
3ACI-104-B-1200-WW	12	3ACI-104-B-3000-WW	30
3ACI-104-B-1400-WW	14	3ACI-104-B-3600-WW	36

WW = Wrap, Velcro and Straps

All dimensions are in inches. Larger sizes available. Call Product Specialist for details.

105 • ACCESSORY WRAP

45° Tube Elbow (Long Radius) • Wrap

Part Number	Size	Application
3ACI-105-45-300-WW	3	Tube
3ACI-105-45-350-WW	3.5	Tube & Pipe
3ACI-105-45-400-WW	4	Tube
3ACI-105-45-450-WW	4.5	Pipe

Part Number	Size	Application
3ACI-105-45-500-WW	5	Tube
3ACI-105-45-556-WW	5.56	Pipe
3ACI-105-45-600-WW	6	Tube

45° Tube Elbow (Short Radius-Tangent Cut) • Wrap

Part Number	Size	Application
3ACI-105-45-300-WW	3	Tube
3ACI-105-45-350-WW	3.5	Tube & Pipe
3ACI-105-45-400-WW	4	Tube
3ACI-105-45-450-WW	4.5	Pipe
3ACI-105-45-500-WW	5	Tube
3ACI-105-45-556-WW	5.56	Pipe
3ACI-105-45-600-WW	6	Tube

Part Number	Size	Application
3ACI-105-45-663-WW	6.63	Pipe
3ACI-105-45-800-WW	8	Tube
3ACI-105-45-863-WW	8.63	Pipe
3ACI-105-45-1000-WW	10	Tube
3ACI-105-45-1075-WW	10.75	Pipe
3ACI-105-45-1200-WW	12	Tube
3ACI-105-45-1275-WW	12.75	Pipe

90° Tube Elbow (Long Radius) • Wrap

Part Number	Size	Application
3ACI-105-300-WW	3	Tube
3ACI-105-350-WW	3.5	Tube & Pipe
3ACI-105-400-WW	4	Tube
3ACI-105-450-WW	4.5	Pipe

Part Number	Size	Application
3ACI-105-500-WW	5	Tube
3ACI-105-556-WW	5.56	Pipe
3ACI-105-600-WW	6	Tube

90° Tube Elbow (Short Radius- Tangent Cut) • Wrap

Part Number	Size	Application
3ACI-105-300-WW	3	Tube
3ACI-105-350-WW	3.5	Tube & Pipe
3ACI-105-400-WW	4	Tube
3ACI-105-450-WW	4.5	Pipe
3ACI-105-500-WW	5	Tube
3ACI-105-556-WW	5.56	Pipe
3ACI-105-600-WW	6	Tube

Part Number	Size	Application
3ACI-105-663-WW	6.63	Pipe
3ACI-105-800-WW	8	Tube
3ACI-105-863-WW	8.63	Pipe
3ACI-105-1000-WW	10	Tube
3ACI-105-1075-WW	10.75	Pipe
3ACI-105-1200-WW	12	Tube
3ACI-105-1275-WW	12.75	Pipe

All dimensions are in inches. Larger sizes available. Call Product Specialist for details.
All elbow wraps are for tangent cut elbows. Consult with Product Specialist for elbow wraps with extended legs.

106 • ACCESSORY WRAP

Mitred Elbow & Flange Thermal Wrap

90° Mitred Elbow (Short Radius) • Wrap

Part Number	Size	Application
3ACI-105-M-800-WW	8	Tube
3ACI-105-M-1000-WW	10	Tube
3ACI-105-M-1200-WW	12	Tube
3ACI-105-M-1400-WW	14	Tube
3ACI-105-M-1600-WW	16	Tube
3ACI-105-M-1800-WW	18	Tube

Part Number	Size	Application
3ACI-105-M-2000-WW	20	Tube
3ACI-105-M-2200-WW	22	Tube
3ACI-105-M-2400-WW	24	Tube
3ACI-105-M-2600-WW	26	Tube
3ACI-105-M-2800-WW	28	Tube
3ACI-105-M-3000-WW	30	Tube

ANSI Flange • Wrap

Part Number	Nominal Size
3ACI-106-300-WW	3
3ACI-106-350-WW	3.5
3ACI-106-400-WW	4
3ACI-106-500-WW	5
3ACI-106-600-WW	6
3ACI-106-800-WW	8
3ACI-106-1000-WW	10
3ACI-106-1200-WW	12
3ACI-106-1400-WW	14
3ACI-106-1600-WW	16

Part Number	Nominal Size
3ACI-106-1800-WW	18
3ACI-106-2000-WW	20
3ACI-106-2200-WW	22
3ACI-106-2400-WW	24
3ACI-106-2600-WW	26
3ACI-106-2800-WW	28
3ACI-106-3000-WW	30
3ACI-106-3200-WW	32
3ACI-106-3400-WW	34
3ACI-106-3600-WW	36

The wrap will cover 2 flanges bolted together.

All dimensions are in inches. Larger sizes available. Call Product Specialist for details.

ACCESSORY PART NUMBER ASSIGNMENTS

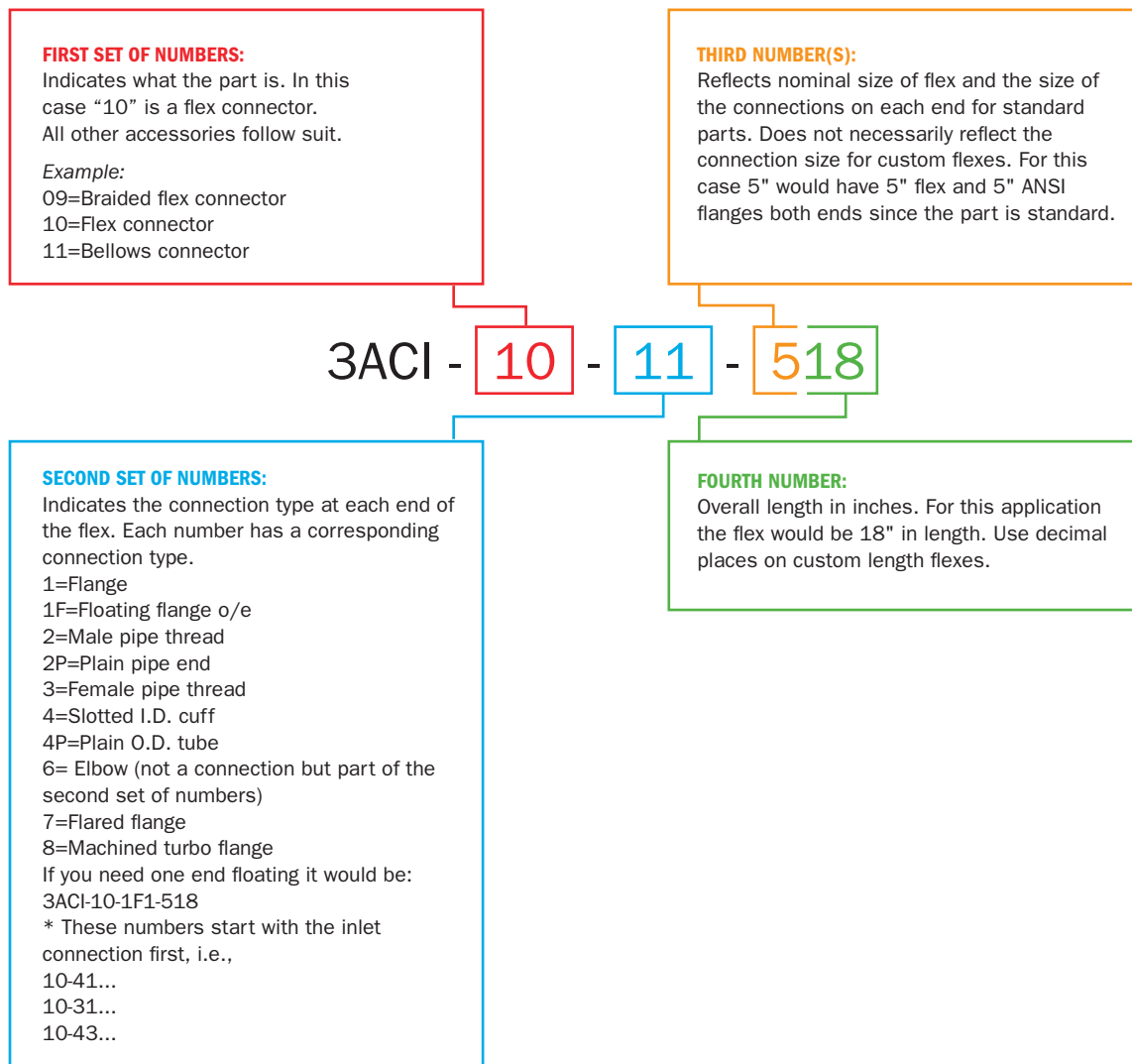
UNDERSTANDING FLEX/BELLOWS PART NUMBER STRUCTURE

- A. Standard part numbering scheme
- B. Creating flex/bellows part number with engine flange O/E
- C. Creating flex/bellows part number with Reducing/Increasing ANSI flange O/E
- D. Creating flex/bellows part number with engine flange O/E and Reducing/Increasing ANSI flange O/E
- E. Creating flex/bellows part number that is stainless steel
- F. Creating a flex/bellows part number when part is custom

A. STANDARD PART NUMBERING SCHEME

Example:

You need a 5" flex connector with 5" ANSI flanges both ends, 18" overall length, or a 10-11-518
Part number = 3ACI-10-11-518



ACCESSORY PART NUMBER ASSIGNMENTS

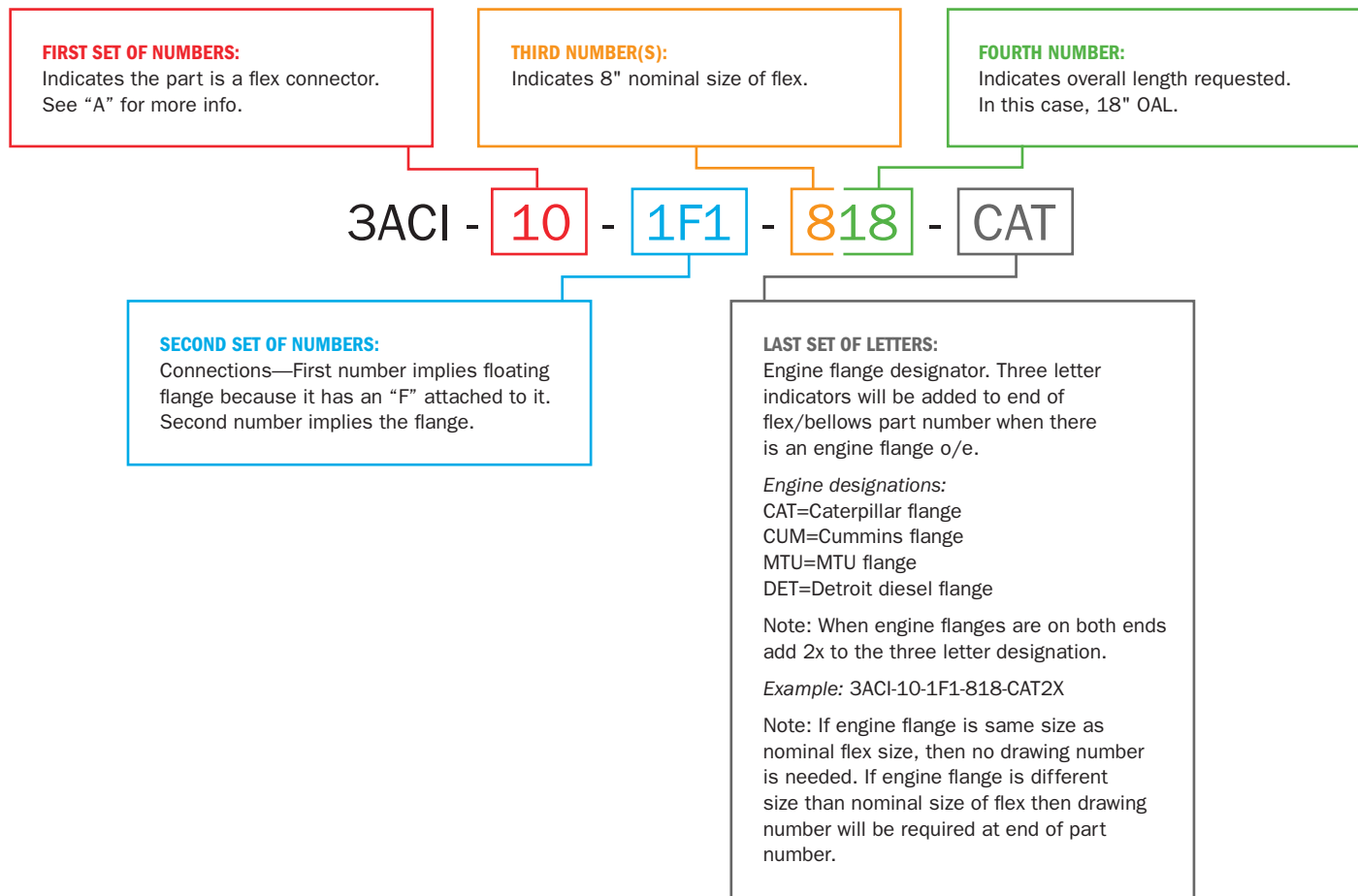
Understanding Flex/Bellows Part Numbers

B. CREATING FLEX/BELLOWS PART NUMBER WITH ENGINE FLANGE O/E

Example:

You need an 8" flex connector with floating 8" Caterpillar flange one end and 8" ANSI flange one end, 18" overall length.

Part number = 3ACI-10-1F1-818-CAT



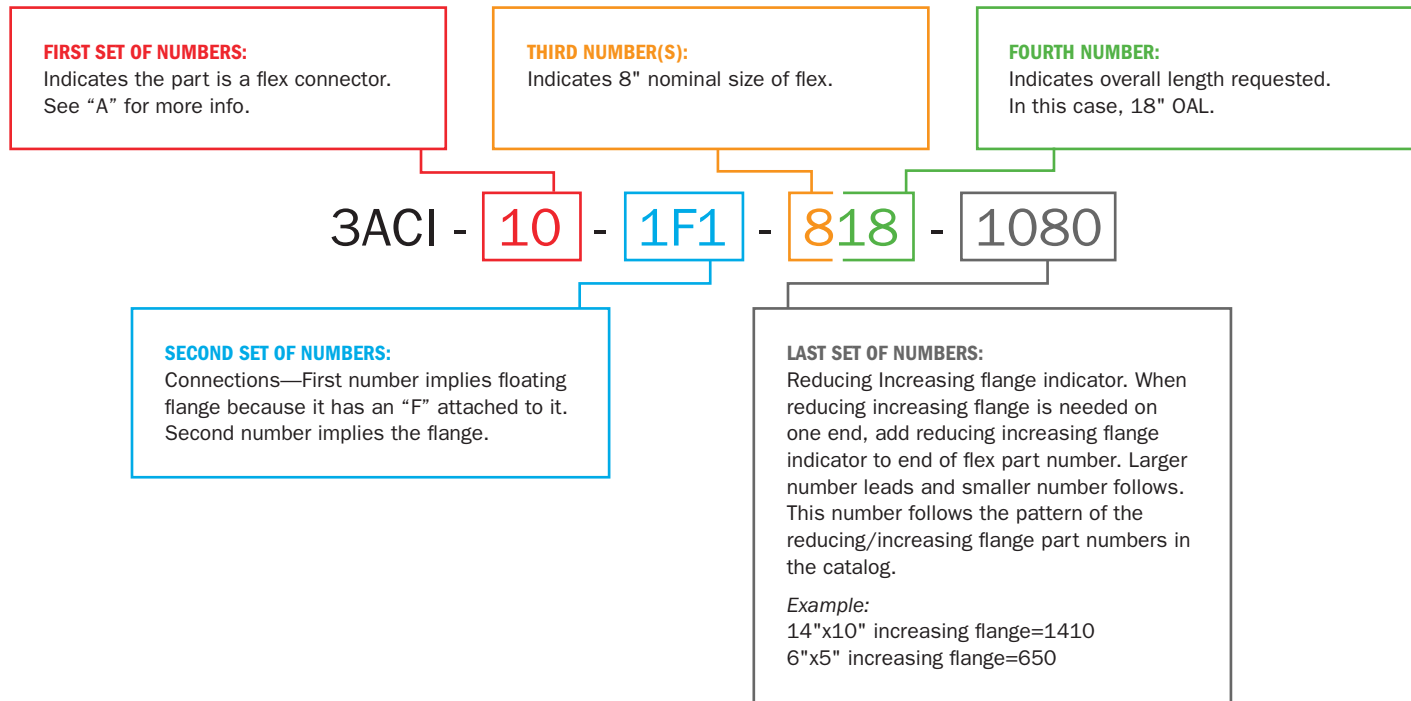
ACCESSORY PART NUMBER ASSIGNMENTS

Understanding Flex/Bellows Part Numbers

C. CREATING FLEX/BELLOWS PART NUMBER WITH REDUCING/INCREASING ANSI FLANGE O/E

Example:

You need an 8" flex connector with floating 8" ANSI flange one end and 10" x 8" ANSI flange one end, 18" overall length.
Part number = 3ACI-10-1F1-818-1080



ACCESSORY PART NUMBER ASSIGNMENTS

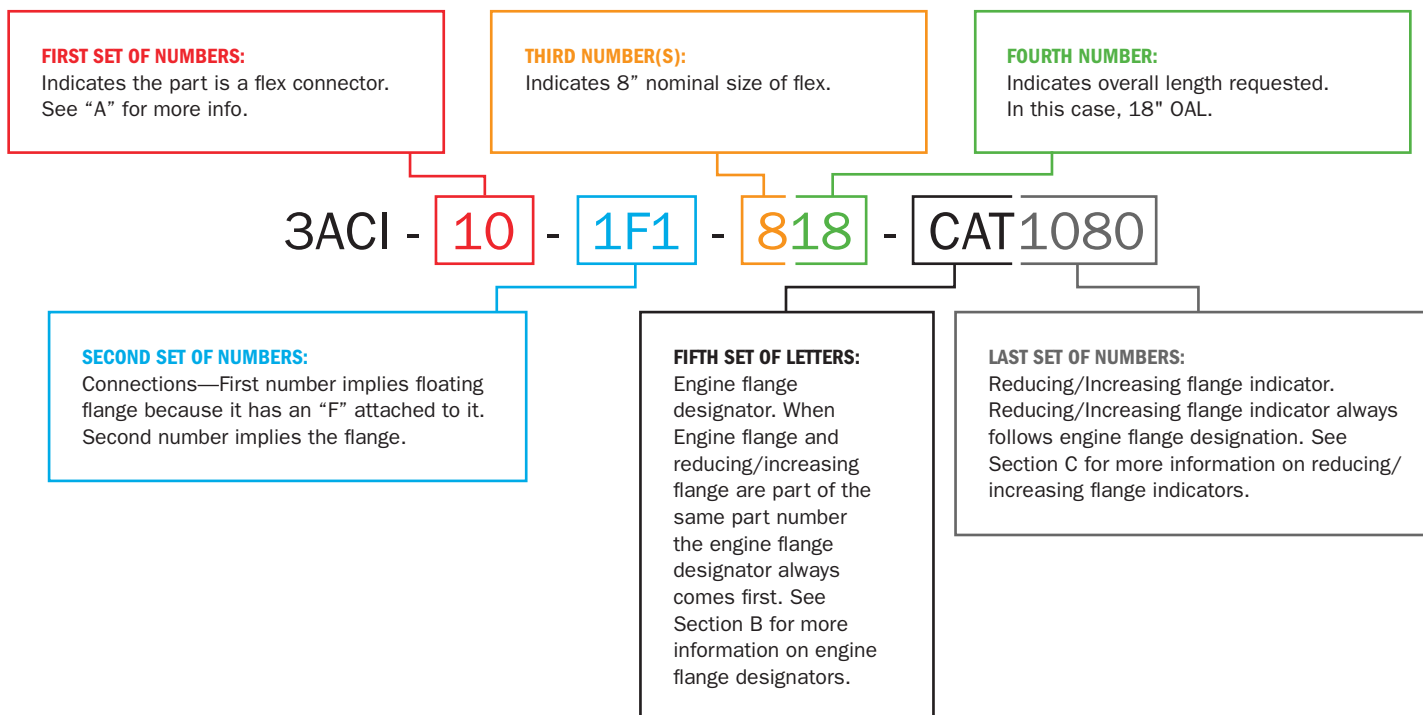
Understanding Flex/Bellows Part Numbers

D. CREATING FLEX/BELLOWS PART NUMBER WITH ENGINE FLANGE O/E AND REDUCING/INCREASING ANSI FLANGE O/E

Example:

You need an 8" flex connector with floating 8" CAT flange one end and 10" x 8" ANSI flange one end, 18" overall length.

Part number = 3ACI-10-1F1-818-CAT1080



ACCESSORY PART NUMBER ASSIGNMENTS

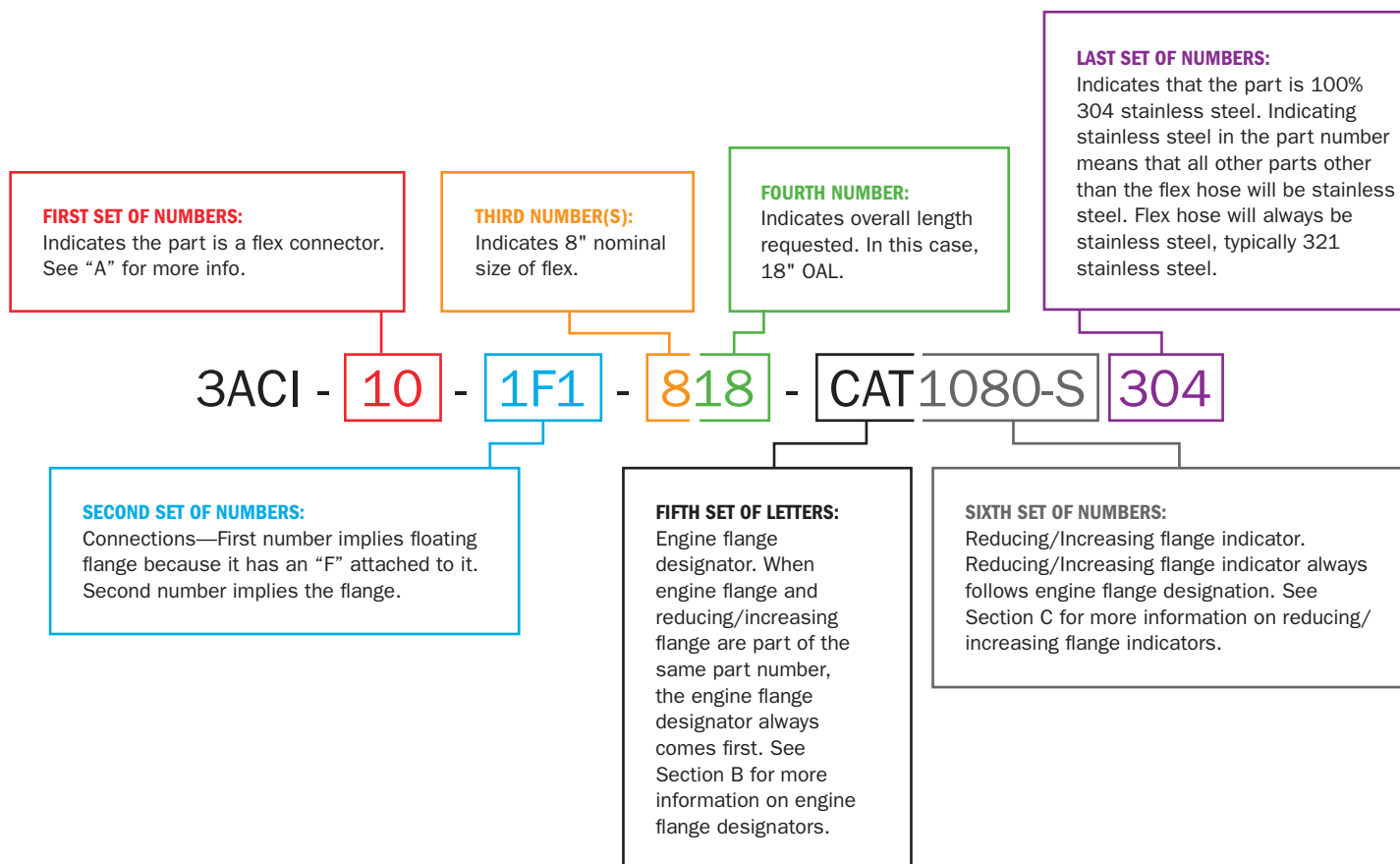
Understanding Flex/Bellows Part Numbers

E. CREATING FLEX/BELLOWS PART NUMBER THAT IS STAINLESS STEEL

Example:

You need an 8" flex connector with floating 8" CAT flange one end and 10" x 8" ANSI flange one end, 18" overall length and the unit needs to be 304 stainless steel.

Part number = 3ACI-10-1F1-818-CAT1080-S304



ACCESSORY PART NUMBER ASSIGNMENTS

Pricing a Custom Flex Connector

PRICING A CUSTOM FLEX CONNECTOR*

*Note: These examples should cover most situations you come across. If in doubt consult Product Specialist.

- A. Substituting reducing/increasing flange one end
- B. Substituting a standard engine plate flange for an ANSI flange, one end of a flex connector
- C. Adding/subtracting length to flex connector
- D. 100% stainless steel flex connector
- E. Plain tube or plain pipe ends
- F. Adding length to a leg of a flex connector with an elbow
- G. Pricing flex pieces that have a transition in size. Cones and donuts

A. SUBSTITUTING REDUCING/INCREASING FLANGE ONE END

Problem/Need: You need to price a 10" flex with flanges both ends but instead of having the standard 10" ANSI flanges both ends, one end floating, you need a 12" x 10" increasing flange o/e, 18" long. How do I price that?
(Henceforth, all pricing is not actual pricing from catalog but is strictly for illustration purposes. Please consult most current version of GTE or Silex pricing guide.)

To solve: In essence we are removing a standard flange from one end, in this case a 10" ANSI flange (3ACI-41-1000), and substituting it with a 12" x 10" increasing flange (3ACI-46-T-1210). To solve we need to have the pricing for all three pieces.

- (1) The base flex price : 3ACI-10-1F1-1018 = \$536 LIST
- (2) The 10" ANSI flange price: 3ACI-41-1000 = \$134 LIST
- (3) The 12" x 10" Increasing ANSI flange price : 3ACI-46-T-1210 = \$196 LIST

Second, take the base price of the flex and subtract the 10" ANSI flange price from the price of the flex.

\$536 (Standard 3ACI-10-1F1-1018)
- \$134 (3ACI-41-1000)
\$402 Subtotal

Next, take the subtotal and add the 12" x 10" increasing flange price to the subtotal.

\$402 Subtotal
+ \$196 3ACI-46-T-1210
\$598 New price of flex

This technique will work whenever you need a reducing/increasing flange on one end of a flex connector. If the desired reducing/increasing flange price is not in the catalog please contact the Product Specialist for pricing.

ACCESSORY PART NUMBER ASSIGNMENTS

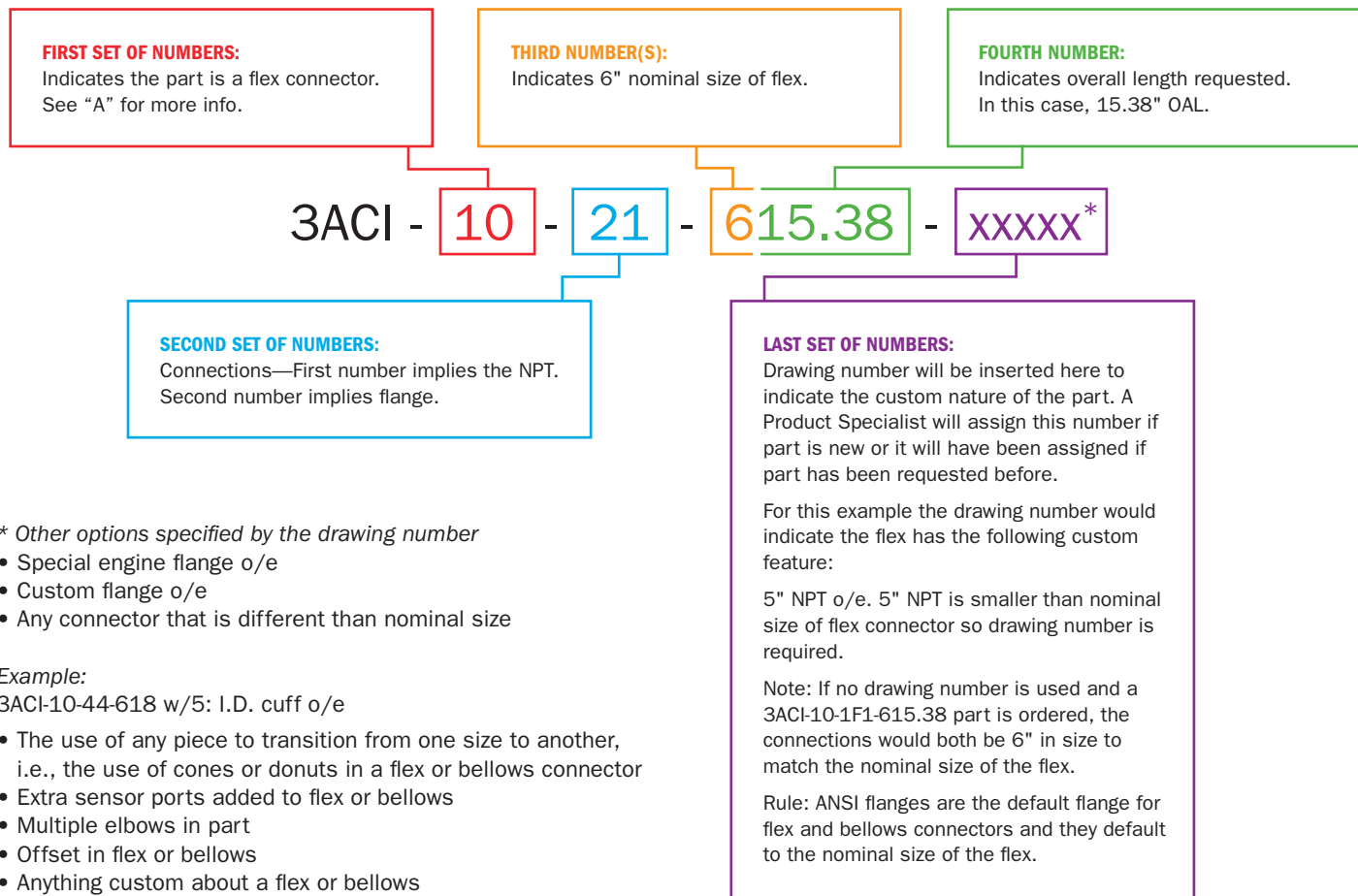
Understanding Flex/Bellows Part Numbers

F. CREATING A FLEX/BELLOWS PART NUMBER WHEN PART IS CUSTOM

Example:

You need a 6" flex connector with a floating 5" NPT one end and a 6" ANSI flange o/e, 15.38" in length.

Part number = 3ACI-10-21-615.38-XXXX ← Drawing number that is assigned by Product Specialist.



* Other options specified by the drawing number

- Special engine flange o/e
- Custom flange o/e
- Any connector that is different than nominal size

Example:

3ACI-10-44-618 w/5: I.D. cuff o/e

- The use of any piece to transition from one size to another, i.e., the use of cones or donuts in a flex or bellows connector
- Extra sensor ports added to flex or bellows
- Multiple elbows in part
- Offset in flex or bellows
- Anything custom about a flex or bellows

If no drawing number is indicated in part number the rule is that the connection type on both ends will come standard in the nominal size of the flex bellows. If something is custom contact a Product Specialist for a correct part number that includes a drawing number.

ACCESSORY PART NUMBER ASSIGNMENTS

Pricing a Custom Flex Connector

B. SUBSTITUTING A STANDARD ENGINE PLATE FLANGE FOR AN ANSI FLANGE, ONE END OF A FLEX CONNECTOR.

Problem/Need: You need to price a flex connector with a standard engine flange one end and an ANSI flange one end, but the catalog either does not contain an entry for the standard engine plate flange flex connector you need, or does not have the size flex you need or both are missing.

To solve: Most flex connectors with an engine plate flanges one end, are now priced in our catalog. If the flex connector you are looking for in the catalog does not have the standard engine flange pattern on one end or the size flex you are looking for, and the engine flange needed is of equal or lesser size to an ANSI flange of the same nominal size, you may use the price of the standard flex connector (ANSI X ANSI) of the same nominal size.

For example: You need a 4" flex connector with a 4" Caterpillar flange one end and a 4" ANSI flange the other end. This price is not in the catalog. The 4" Caterpillar flange is similar in size to a 4" ANSI flange, if not smaller and it is in the catalog so it would be considered a "standard" engine flange. So you can use the 3ACI-10-1F1-418 price in the catalog. You would still need to request a drawing and correct part number from a Product Specialist, but you can use this to price your connector.

Note: If you need a price on flex with a reducing/increasing flange on one end and an engine plate flange one end, combine what you've learned from both "A" and "B" of this document to get your price. Consult Product Specialist with questions.

C. ADDING/SUBTRACTING LENGTH TO A FLEX CONNECTOR

- a. Flex connectors that are shorter than standard length will be same price as standard length flex
- b. Use flex and tube adders when adding flex or tube length to flex connector
- c. For flex connectors that have multiple pieces of flex or tube in part, consult factory for pricing

D. 100% STAINLESS STEEL FLEX CONNECTOR

Consult Product Specialist for 100% stainless steel flex connector pricing.

E. PLAIN TUBE OR PLAIN PIPE ENDS

There is no specific pricing for plain tube or plain pipe ends on flex connectors. This is how you would price these plain ends.

Example: You need to price a 4" flex connector that has a 4" I.D. cuff one end and a 4" O.D. tube on the other end, 18" overall length. The part # would be 3ACI-10-44P*-418. Use the standard price of the equivalent flex connector that contains a 4 in the part number (for more information on flex connector part numbering scheme see part #1 – A). In this case: 3ACI-10-44P-418 = 3ACI-10-44-418 in price. The same holds true in the case of a plain pipe end. 3ACI-10-22P-418 = 3ACI-10-22-418 price.

Other examples:

3ACI-10-2P2P-418 = 3ACI-10-22-418

3ACI-10-2P3-318 = 3ACI-10-23-318

3ACI-10-4P4P-518 = 3ACI-10-44-518

All the preceding are examples of flex connectors that have plain ends, tubing or pipe, and how they are equivalent in price to an I.D. cuff end for plain tube end or a male pipe thread for a plain pipe end. Use rules from Part #2, section C when adding/subtracting length.

*See Part #1, Section A for more information on connections numbers.

ACCESSORY PART NUMBER ASSIGNMENTS

Pricing a Custom Flex Connector

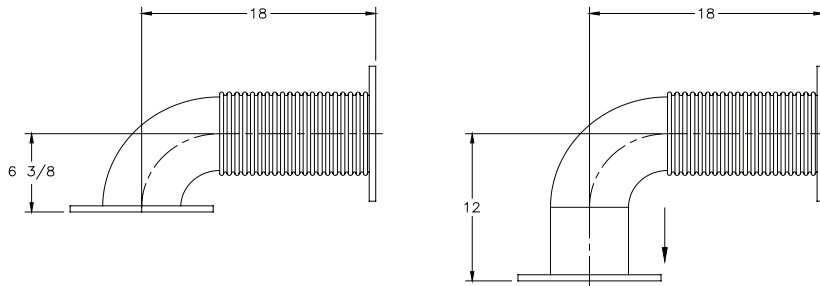
F. PRICING A CUSTOM FLEX CONNECTOR*

Pricing flex connectors that have an elbow in the flex piece and one, or both legs need to be extended.

Example:

You need to price a 3ACI-10-1F61F-618 but the leg with no flex needs to be extended from 6.38" (standard dimension) to 12". We need to figure out how much extra tubing we'll need to add into our standard price. To start we'll need the standard flex price:

3ACI-10-1F61F-618 = \$362, 6" tube price per inch = \$2.01



We need to solve for how much extra tube we need to add to the price of our standard flex connector. We take the desired leg length and subtract our original leg length.

12" (desired leg length)

-6.38" (standard leg length)

5.62" of extra tubing we need to add to our standard flex price.

5.62" x \$2.01 = \$11.30 of tubing

\$362.00 (Standard 3ACI-10-1F61F-618)

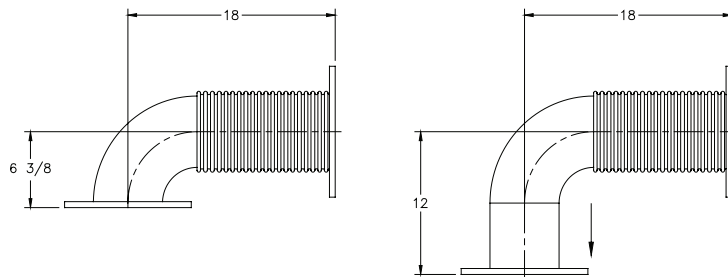
+ \$11.30 (extra tubing to meet 12" leg length)

\$373.30 Final price for a 3ACI-10-1F61F-618-xxxxx*

*Note: A new drawing number will need to be assigned to the piece if a leg is extended.

G. PRICING FLEX PIECES THAT HAVE A TRANSITION IN SIZE. (*Expansion Cones and Donuts*)

When you need one or both ends of a flex connector to step up or down in size by using an expansion cone or a donut in a flex connector.



Consult Product Specialist for drawings and pricing on flex connectors with donuts or expansion cones.

Limited Warranty of Repair or Replacement

The Company warrants to the Purchaser that it will repair or replace at its option, any Equipment, or parts of Equipment, which, in the Company's judgment is defective in material or workmanship for a period of one (1) year after the date of shipment from the Company's facility; Exceptions as follows: Powder Coated Silencers and Powder Coated Emissions Housings will carry a one (1) year warranty. Serenity™ products will carry a one (1) year warranty. Stainless Steel Silencers and Stainless Steel Emissions Housings will carry a three (3) year warranty.

This limited warranty to repair or replace is conditioned upon the Equipment being properly installed and maintained and operated under normal conditions. The Company shall be the sole judge in determining the nature of any defect in any of its Equipment and its sole obligation shall be to repair or replace the Equipment or any parts of the Equipment at its sole discretion and option.

Equipment, accessories and other parts and components not manufactured by the Company are warranted only to the extent of and by the original manufacturer's warranty to the Company, and in no event shall such other manufacturer's warranty create any more extensive warranty obligations of the Company to the Purchaser than the Company's warranty covering Equipment manufactured by the Company.

Exclusions from Warranty

THE FOREGOING LIMITED WARRANTY OF REPAIR OR REPLACEMENT IS THE SOLE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER ORAL, EXPRESSED, IMPLIED OR ARISING BY OPERATION OF LAW, TRADE USAGE OR COURSE OF DEALING, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES RELATING TO MATERIALS OR COMPONENTS MANUFACTURED BY ANY PARTY OTHER THAN THE COMPANY.

The Company's warranty is solely as stated in (a) above and does not apply or extend, for example, to expendable items, ordinary wear and tear, altered Equipment, altered parts of Equipment, Equipment or parts of Equipment repaired by persons not expressly approved by the Company, materials not of the Company's manufacture, defects caused by the Company's reliance on specifications or directions provided by Purchaser, defects caused by the Purchaser's failure to comply with the Company's directions or specifications, accident, the elements, abuse, misuse, lack of proper maintenance, or by erosive or corrosive substances.

Warranty Adjustment

The Company shall repair or shall replace at the Company's facility, any parts of the Equipment found to be defective in design, workmanship, or material within one (1) year from the date of shipment from the Company's facility, provided the Equipment is operated by the Purchaser in accordance with generally approved practice and in accordance with the conditions of service, if any, herein specified, and provided the Purchaser notifies the Company in writing within thirty (30) days of discovery of any alleged defect. Exceptions or addendums to the one (1) year period are noted above. Any warranty adjustments made by the Company shall not extend the initial warranty period set forth above. The warranty period for replacements to the Equipment made by the Company shall terminate upon the termination of the initial warranty period set forth above. Expenses incurred by Purchaser for labor to replace or repair or expenses to return the Equipment or any part or parts to Company will not be reimbursed by the Company.

Limitation of Liability

The warranty adjustment provision set forth in this paragraph shall be the Purchaser's exclusive remedy and the extent of the Company's liability for breach of contract, breach of implied (if any) and express warranties, representations, instructions or defects from any cause in connection with the sale or use of the Equipment. THE COMPANY SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, DELAY OR CONSEQUENTIAL DAMAGES, OR FOR LOSS, DAMAGE OR EXPENSE, DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF THE EQUIPMENT, SPARE OR REPLACEMENT PARTS, OR FROM ANY OTHER CAUSE WHETHER BASED ON WARRANTY (EXPRESSED OR IMPLIED) OR TORT OR CONTRACT AND THE COMPANY'S TOTAL LIABILITY SHALL NOT EXCEED THE PURCHASE PRICE, regardless of any advices or recommendations that may have been rendered concerning the purchase, installation or use of the Equipment.

For further information on quotes, please contact a Product Specialist.

Tel: 608-719-1800 ■ Email: GTExhaust.sales@nelsongp.com



www.gtexhaust.com



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SILENCER PRODUCT LISTING & ACCESSORY CATALOG

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The Company's warranty is solely as stated in (a) above and does not apply or extend, for example, to expendable items, ordinary wear and tear, altered Equipment, altered parts of Equipment, Equipment or parts of Equipment repaired by persons not expressly approved by the Company, materials not of the Company's manufacture, defects caused by the Company's reliance on specifications or directions provided by Purchaser, defects caused by the Purchaser's failure to comply with the Company's directions or specifications, accident, the elements, abuse, misuse, lack of proper maintenance, or by erosive or corrosive substances.

Warranty Adjustment

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