

SPECIFICATIONS

M-10 Flex and M-11 Bellows Specifications

Specifications for Flex Connectors				
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	0.6	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°

Specifications for Single Ply Bellow (Expansion Joints)											
Nominal Size (In.)	PSIG	TEMP (°F)	Axial Comp		Lateral Offset		Axial Spring		Lateral Spring		Fatigue* Cycle
			S	L	S	L	S	L	S	L	
3	5	1200°	1.0	2.0	0.125	0.50	261	156	249	53	10,000
4	5	1200°	1.0	2.0	0.125	0.50	239	111	442	51	10,000
5	5	1200°	1.0	2.0	0.062	0.50	459	202	1,201	133	10,000
6	5	1200°	1.0	2.0	0.062	0.50	542	239	1,964	218	10,000
8	5	1200°	1.0	2.0	0.031	0.50	712	317	4,361	488	10,000
10	5	1200°	1.0	2.0	0.031	0.25	693	322	7,351	854	10,000
12	5	1200°	1.0	2.0	0.031	0.25	828	385	12,266	1,428	10,000
14	5	1200°	1.0	2.0	0.031	0.25	661	308	12,445	1,448	10,000
16	5	1200°	1.0	2.0	0.031	0.25	753	351	18,189	2,114	10,000
18	5	1200°	1.0	2.0	0.031	0.25	845	393	25,420	2,958	10,000
20	5	1200°	1.0	2.0	0.031	0.25	936	436	34,370	3,996	10,000
22	5	1200°	1.0	2.0	0.031	0.25	1,027	478	45,161	5,255	10,000
24	5	1200°	1.0	2.0	0.031	0.25	1,118	520	58,048	6,753	10,000

*Numbers vary depending upon overall length. Movements are concurrent. Numbers presented are for short and long size bellows capsules.
 **All bellows designs are per Expansion Joint Manufacturers Association 9th Edition. All dimensions are in inches. Larger diameters available upon request.

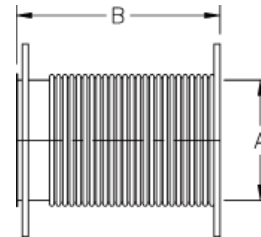


M-10 FLEX CONNECTORS

Corrugated Flex Connectors

Floating ANSI Flange / ANSI Flange

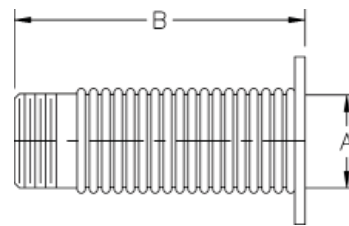
Part Number	A	B	WT
M-10-1F1-3518	3.5	18	18
M-10-1F1-418	4	18	20
M-10-1F1-518	5	18	24
M-10-1F1-618	6	18	28
M-10-1F1-818	8	18	39
M-10-1F1-1018	10	18	51
M-10-1F1-1218	12	18	64



Male NPT / ANSI Flange

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

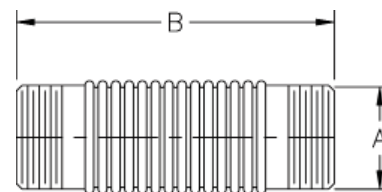
Threaded pipe nipples may be replaced with plain pipe stubs.



Male NPT / Male NPT

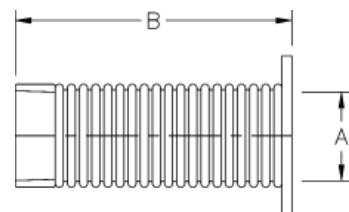
Part Number	A	B	WT
M-10-22-218	2	18	6
M-10-22-2518	2.5	18	6
M-10-22-318	3	18	8
M-10-22-3518	3.5	18	10
M-10-22-418	4	18	11

Threaded pipe nipples may be replaced with plain pipe stubs.



Female Half Coupling / ANSI Flange

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



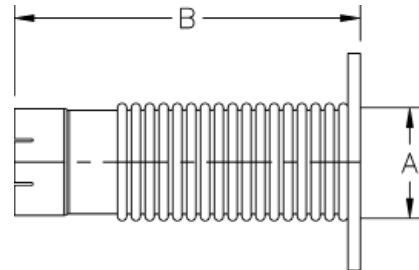
All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. All ANSI flanges may be replaced with a standard Caterpillar, Cummins, or MTU engine flanges. Flex is 321 stainless steel. End connections are carbon steel. Connections available in stainless steel.

M-10 FLEX CONNECTORS

Corrugated Flex Connectors

Slotted ID Cuff / ANSI Flange

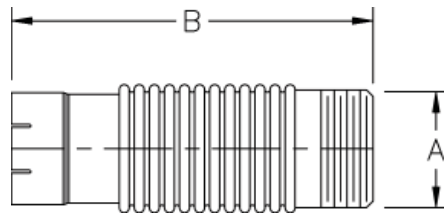
Part Number	A	B	WT
M-10-41-218	2	18	9
M-10-41-2518	2.5	18	10
M-10-41-318	3	18	10
M-10-41-3518	3.5	18	13
M-10-41-418	4	18	14
M-10-41-518	5	18	16
M-10-41-618	6	18	19



Slotted ID Cuff / Male NPT

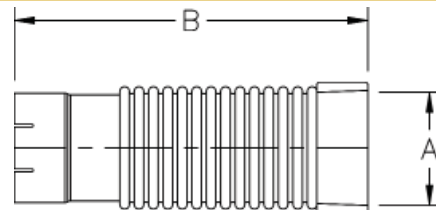
Part Number	A	B	WT
M-10-42-218	2	18	5
M-10-42-2518	2.5	18	6
M-10-42-318	3	18	7
M-10-42-3518	3.5	18	8
M-10-42-418	4	18	9

Threaded pipe nipples may be replaced with plain pipe stubs.



Slotted ID Cuff / Female Half Coupling

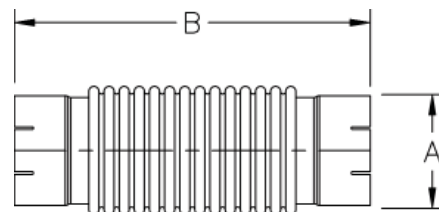
Part Number	A	B	WT
M-10-43-218	2	18	5
M-10-43-2518	2.5	18	6
M-10-43-318	3	18	6
M-10-43-3518	3.5	18	8
M-10-43-418	4	18	9



Slotted ID Cuff / Slotted ID Cuff

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

Tube ends may be substituted



All dimensions are in inches. All weights are in pounds. Weights are approximate. Larger sizes available. 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.

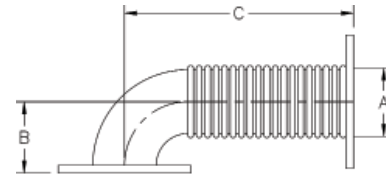


M-10 FLEX CONNECTORS

Corrugated Flex Connectors

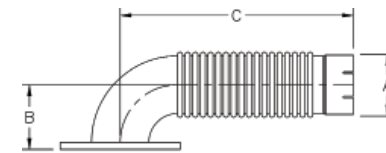
Floating ANSI Flange / 90° Elbow / Floating ANSI Flange

Part Number	A	B	C	WT
M-10-1F61F-600-B65C18	6	6.5	18	27
M-10-1F61F-800-B9C24	8	9	24	48
M-10-1F61F-1000-B11C24	10	11	24	63
M-10-1F61F-1200-B13C24	12	13	24	84



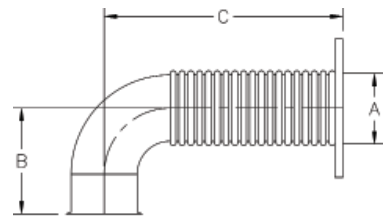
Floating ANSI Flange / 90° Elbow / Slotted ID Cuff

Part Number	A	B	C	WT
M-10-1F64-400-B45C18	4	4.5	18	14
M-10-1F64-500-B55C19	5	5.5	19	18
M-10-1F64-600-B65C20	6	6.5	20	22



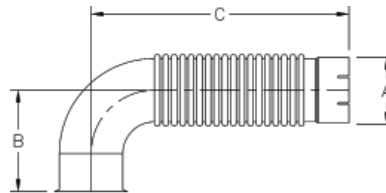
Flared Flange / 90° Elbow / Floating ANSI Flange

Part Number	A	B	C	WT
M-10-761F-500-B8C23.25	5	8	23.25	19
M-10-761F-600-B9C24.50	6	9	24.50	23



Flared Flange / 90° Elbow / Slotted ID Cuff

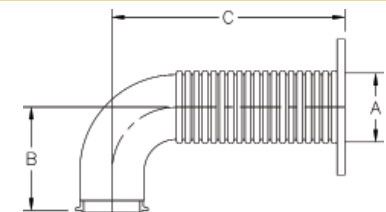
Part Number	A	B	C	WT
M-10-764-350-B5C18	3.5	5	18	7
M-10-764-400-B5.5C18	4	5.5	18	9
M-10-764-500-B8C20	5	8	20	12
M-10-764-600-B9C22	6	9	22	16



Machined Turbo Flange / 90° Elbow / Floating ANSI Flange

Part Number	A	B	C	WT
M-10-861F-500-B6.63C23.25	5	6.63	23.25	21
M-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. 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.