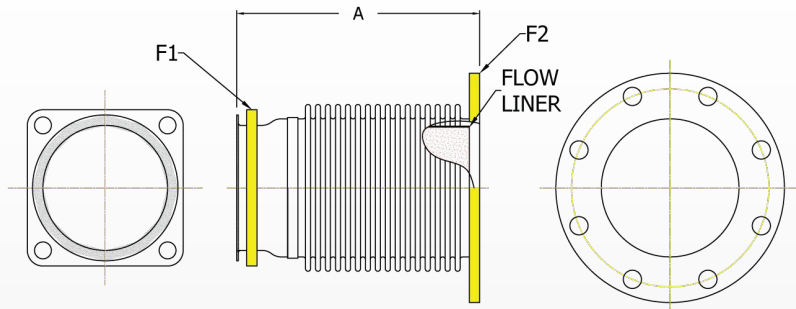


# C-MANIFOLD EXPANSION JOINTS

1. T-321 S/S BELLOWS **MULTI-PLY**
  2. FLOATING C/S C-MANIFOLD FLANGE
  3. *INTEGRAL* T-321 S/S VANSTONE STUB END \*\*
  4. FIXED 150# DRILLED ANSI FLANGE
  5. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

## 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 9"  | 4" C  | 4" ANSI  | 50-4064170               |
| 4"   | 9"  | 4" C  | 5" ANSI  | 50-4065170               |
| 4"   | 9"  | 4" C  | 6" ANSI  | 50-4066170               |
| 5"   | 9"  | 5" C  | 5" ANSI  | 50-5065170               |
| 5"   | 9"  | 5" C  | 6" ANSI  | 50-5066170               |
| 5"   | 9"  | 5" C  | 8" ANSI  | 50-5068170               |
| 6"   | 9"  | 6" C  | 6" ANSI  | 50-6066170               |
| 6"   | 9"  | 6" C  | 8" ANSI  | 50-6068170               |
| 6"   | 9"  | 6" C  | 10" ANSI | 50-50610170              |
| 8"   | 9"  | 8" C  | 8" ANSI  | 50-8068170               |
| 8"   | 9"  | 8" C  | 10" ANSI | 50-80610170              |
| 8"   | 9"  | 8" C  | 12" ANSI | 50-80612170              |
| 8"   | 9"  | 8" C  | 14" ANSI | 50-80614170              |
| 10"  | 9"  | 10" C | 10" ANSI | 80-100610170             |
| 10"  | 9"  | 10" C | 12" ANSI | 50-100612170             |
| 10"  | 9"  | 10" C | 14" ANSI | 50-100614170             |
| 12"  | 9"  | 12" C | 12" ANSI | 50-120612170             |
| 12"  | 9"  | 12" C | 14" ANSI | 50-120614170             |
| 12"  | 9"  | 12" C | 16" ANSI | 50-120616170             |
| 14"  | 9"  | 14" C | 14" ANSI | 50-140614170             |
| 14"  | 9"  | 14" C | 16" ANSI | 50-140616170             |
| 14"  | 9"  | 14" C | 18" ANSI | 50-140618170             |
| 16"  | 9"  | 16" C | 16" ANSI | 50-160616170             |
| 16"  | 9"  | 16" C | 18" ANSI | 50-160618170             |
| 18"  | 9"  | 18" C | 18" ANSI | 50-180618170             |
| 18"  | 9"  | 18" C | 20" ANSI | 50-180620170             |
| 18"  | 9"  | 18" C | 22" ANSI | 50-180622170             |

## 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 12" | 4" C  | 4" ANSI  | 50-4094170               |
| 4"   | 12" | 4" C  | 5" ANSI  | 50-4095170               |
| 4"   | 12" | 4" C  | 6" ANSI  | 50-4096170               |
| 5"   | 12" | 5" C  | 5" ANSI  | 50-5095170               |
| 5"   | 12" | 5" C  | 6" ANSI  | 50-5096170               |
| 5"   | 12" | 5" C  | 8" ANSI  | 50-5098170               |
| 6"   | 12" | 6" C  | 6" ANSI  | 50-6096170               |
| 6"   | 12" | 6" C  | 8" ANSI  | 50-6098170               |
| 8"   | 12" | 6" C  | 10" ANSI | 50-50910170              |
| 8"   | 12" | 8" C  | 8" ANSI  | 50-8098170               |
| 8"   | 12" | 8" C  | 10" ANSI | 50-80910170              |
| 8"   | 12" | 8" C  | 12" ANSI | 50-80912170              |
| 8"   | 12" | 8" C  | 14" ANSI | 50-80914170              |
| 10"  | 12" | 10" C | 10" ANSI | 80-100910170             |
| 10"  | 12" | 10" C | 12" ANSI | 50-100912170             |
| 10"  | 12" | 10" C | 14" ANSI | 50-100914170             |
| 12"  | 12" | 12" C | 12" ANSI | 50-120912170             |
| 12"  | 12" | 12" C | 14" ANSI | 50-120914170             |
| 12"  | 12" | 12" C | 16" ANSI | 50-120916170             |
| 14"  | 12" | 14" C | 14" ANSI | 50-140914170             |
| 14"  | 12" | 14" C | 16" ANSI | 50-140916170             |
| 14"  | 12" | 14" C | 18" ANSI | 50-140918170             |
| 16"  | 12" | 16" C | 16" ANSI | 50-160916170             |
| 16"  | 12" | 16" C | 18" ANSI | 50-160918170             |
| 18"  | 12" | 18" C | 18" ANSI | 50-180918170             |
| 18"  | 12" | 18" C | 20" ANSI | 50-180920170             |
| 18"  | 12" | 18" C | 22" ANSI | 50-180922170             |

## 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 15" | 4" C  | 4" ANSI  | 50-40124170              |
| 4"   | 15" | 4" C  | 5" ANSI  | 50-40125170              |
| 4"   | 15" | 4" C  | 6" ANSI  | 50-40126170              |
| 5"   | 15" | 5" C  | 5" ANSI  | 50-50125170              |
| 5"   | 15" | 5" C  | 6" ANSI  | 50-50126170              |
| 5"   | 15" | 5" C  | 8" ANSI  | 50-50128170              |
| 6"   | 15" | 6" C  | 6" ANSI  | 50-60126170              |
| 6"   | 15" | 6" C  | 8" ANSI  | 50-60128170              |
| 8"   | 15" | 6" C  | 10" ANSI | 50-501210170             |
| 8"   | 15" | 8" C  | 8" ANSI  | 50-80128170              |
| 8"   | 15" | 8" C  | 10" ANSI | 50-801210170             |
| 8"   | 15" | 8" C  | 12" ANSI | 50-801212170             |
| 8"   | 15" | 8" C  | 14" ANSI | 50-801214170             |
| 10"  | 15" | 10" C | 10" ANSI | 80-1001210170            |
| 10"  | 15" | 10" C | 12" ANSI | 50-1001212170            |
| 10"  | 15" | 10" C | 14" ANSI | 50-1001214170            |
| 12"  | 15" | 12" C | 12" ANSI | 50-1201212170            |
| 12"  | 15" | 12" C | 14" ANSI | 50-1201214170            |
| 12"  | 15" | 12" C | 16" ANSI | 50-1201216170            |
| 14"  | 15" | 14" C | 14" ANSI | 50-1401214170            |
| 14"  | 15" | 14" C | 16" ANSI | 50-1401216170            |
| 14"  | 15" | 14" C | 18" ANSI | 50-1401218170            |
| 16"  | 15" | 16" C | 16" ANSI | 50-1601216170            |
| 16"  | 15" | 16" C | 18" ANSI | 50-1601218170            |
| 18"  | 15" | 18" C | 18" ANSI | 50-1801218170            |
| 18"  | 15" | 18" C | 20" ANSI | 50-1801220170            |
| 18"  | 15" | 18" C | 22" ANSI | 50-1801222170            |



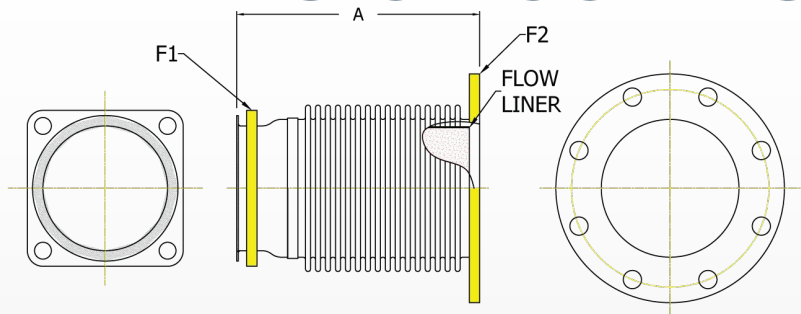
**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
**6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

**INDEX**

**BELLOWS DATA**

# C-MANIFOLD EXPANSION JOINTS

1. T-321 S/S BELLOWS **SINGLE-PLY**
  2. FLOATING C/S C-MANIFOLD FLANGE
  3. *INTEGRAL* T-321 S/S VANSTONE STUB END \*\*
  4. FIXED 150# DRILLED ANSI FLANGE
  5. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

## 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 9"  | 4" C  | 4" ANSI  | CALL                      |
| 4"   | 9"  | 4" C  | 5" ANSI  | CALL                      |
| 4"   | 9"  | 4" C  | 6" ANSI  | CALL                      |
| 5"   | 9"  | 5" C  | 5" ANSI  | CALL                      |
| 5"   | 9"  | 5" C  | 6" ANSI  | CALL                      |
| 5"   | 9"  | 5" C  | 8" ANSI  | CALL                      |
| 6"   | 9"  | 6" C  | 6" ANSI  | CALL                      |
| 6"   | 9"  | 6" C  | 8" ANSI  | CALL                      |
| 8"   | 9"  | 6" C  | 10" ANSI | CALL                      |
| 8"   | 9"  | 8" C  | 8" ANSI  | CALL                      |
| 8"   | 9"  | 8" C  | 10" ANSI | CALL                      |
| 8"   | 9"  | 8" C  | 12" ANSI | CALL                      |
| 8"   | 9"  | 8" C  | 14" ANSI | CALL                      |
| 10"  | 9"  | 10" C | 10" ANSI | CALL                      |
| 10"  | 9"  | 10" C | 12" ANSI | CALL                      |
| 10"  | 9"  | 10" C | 14" ANSI | CALL                      |
| 12"  | 9"  | 12" C | 12" ANSI | CALL                      |
| 12"  | 9"  | 12" C | 14" ANSI | CALL                      |
| 12"  | 9"  | 12" C | 16" ANSI | CALL                      |
| 14"  | 9"  | 14" C | 14" ANSI | CALL                      |
| 14"  | 9"  | 14" C | 16" ANSI | CALL                      |
| 14"  | 9"  | 14" C | 18" ANSI | CALL                      |
| 16"  | 9"  | 16" C | 16" ANSI | CALL                      |
| 16"  | 9"  | 16" C | 18" ANSI | CALL                      |
| 18"  | 9"  | 18" C | 18" ANSI | CALL                      |
| 18"  | 9"  | 18" C | 20" ANSI | CALL                      |
| 18"  | 9"  | 18" C | 22" ANSI | CALL                      |

## 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 12" | 4" C  | 4" ANSI  | 50-4094175                |
| 4"   | 12" | 4" C  | 5" ANSI  | 50-4095175                |
| 4"   | 12" | 4" C  | 6" ANSI  | 50-4096175                |
| 5"   | 12" | 5" C  | 5" ANSI  | 50-5095175                |
| 5"   | 12" | 5" C  | 6" ANSI  | 50-5096175                |
| 5"   | 12" | 5" C  | 8" ANSI  | 50-5098175                |
| 6"   | 12" | 6" C  | 6" ANSI  | 50-6096175                |
| 6"   | 12" | 6" C  | 8" ANSI  | 50-6098175                |
| 8"   | 12" | 6" C  | 10" ANSI | 50-50910175               |
| 8"   | 12" | 8" C  | 8" ANSI  | 50-8098175                |
| 8"   | 12" | 8" C  | 10" ANSI | 50-80910175               |
| 8"   | 12" | 8" C  | 12" ANSI | 50-80912175               |
| 8"   | 12" | 8" C  | 14" ANSI | 50-80914175               |
| 10"  | 12" | 10" C | 10" ANSI | 80-100910175              |
| 10"  | 12" | 10" C | 12" ANSI | 50-100912175              |
| 10"  | 12" | 10" C | 14" ANSI | 50-100914175              |
| 12"  | 12" | 12" C | 12" ANSI | 50-120912175              |
| 12"  | 12" | 12" C | 14" ANSI | 50-120914175              |
| 12"  | 12" | 12" C | 16" ANSI | 50-120916175              |
| 14"  | 12" | 14" C | 14" ANSI | 50-140914175              |
| 14"  | 12" | 14" C | 16" ANSI | 50-140916175              |
| 14"  | 12" | 14" C | 18" ANSI | 50-140918175              |
| 16"  | 12" | 16" C | 16" ANSI | 50-160916175              |
| 16"  | 12" | 16" C | 18" ANSI | 50-160918175              |
| 18"  | 12" | 18" C | 18" ANSI | 50-180918175              |
| 18"  | 12" | 18" C | 20" ANSI | 50-180920175              |
| 18"  | 12" | 18" C | 22" ANSI | 50-180922175              |

## 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 15" | 4" C  | 4" ANSI  | 50-40124175               |
| 4"   | 15" | 4" C  | 5" ANSI  | 50-40125175               |
| 4"   | 15" | 4" C  | 6" ANSI  | 50-40126175               |
| 5"   | 15" | 5" C  | 5" ANSI  | 50-50125175               |
| 5"   | 15" | 5" C  | 6" ANSI  | 50-50126175               |
| 5"   | 15" | 5" C  | 8" ANSI  | 50-50128175               |
| 6"   | 15" | 6" C  | 6" ANSI  | 50-60126175               |
| 6"   | 15" | 6" C  | 8" ANSI  | 50-60128175               |
| 8"   | 15" | 6" C  | 10" ANSI | 50-501210175              |
| 8"   | 15" | 8" C  | 8" ANSI  | 50-80128175               |
| 8"   | 15" | 8" C  | 10" ANSI | 50-801210175              |
| 8"   | 15" | 8" C  | 12" ANSI | 50-801212175              |
| 8"   | 15" | 8" C  | 14" ANSI | 50-801214175              |
| 10"  | 15" | 10" C | 10" ANSI | 80-1001210175             |
| 10"  | 15" | 10" C | 12" ANSI | 50-1001212175             |
| 10"  | 15" | 10" C | 14" ANSI | 50-1001214175             |
| 12"  | 15" | 12" C | 12" ANSI | 50-1201212175             |
| 12"  | 15" | 12" C | 14" ANSI | 50-1201214175             |
| 12"  | 15" | 12" C | 16" ANSI | 50-1201216175             |
| 14"  | 15" | 14" C | 14" ANSI | 50-1401214175             |
| 14"  | 15" | 14" C | 16" ANSI | 50-1401216175             |
| 14"  | 15" | 14" C | 18" ANSI | 50-1401218175             |
| 16"  | 15" | 16" C | 16" ANSI | 50-1601216175             |
| 16"  | 15" | 16" C | 18" ANSI | 50-1601218175             |
| 18"  | 15" | 18" C | 18" ANSI | 50-1801218175             |
| 18"  | 15" | 18" C | 20" ANSI | 50-1801220175             |
| 18"  | 15" | 18" C | 22" ANSI | 50-1801222175             |



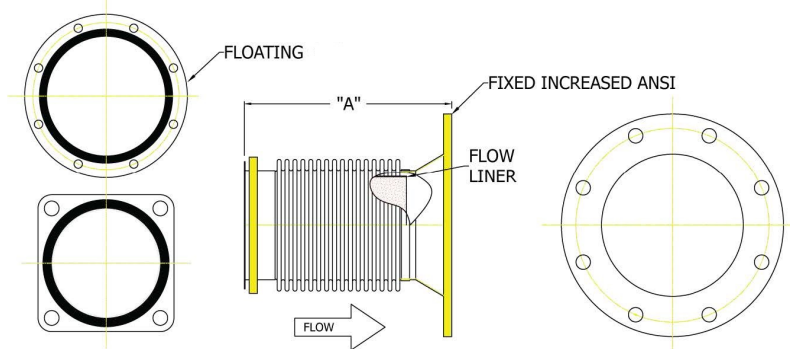
**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
**6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

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**BELLOWS DATA**

# C-MANIFOLD EXPANSION JOINTS

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  2. FLOATING C/S C-MANIFOLD INLET FLANGE
  3. INTEGRAL T-321 S/S VANSTONE STUB END \*\*
  4. INCREASING CONE T304 S/S
  5. FIXED 150# DRILLED ANSI OUTLET FLANGE
  6. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

## 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 13" | 4" C  | 5" ANSI  | 50-4065180               |
| 4"   | 13" | 4" C  | 6" ANSI  | 50-4066180               |
| 5"   | 13" | 5" C  | 6" ANSI  | 50-5066180               |
| 5"   | 13" | 5" C  | 8" ANSI  | 50-5068180               |
| 6"   | 13" | 6" C  | 8" ANSI  | 50-6068180               |
| 8"   | 13" | 6" C  | 10" ANSI | 50-50610180              |
| 8"   | 13" | 8" C  | 10" ANSI | 50-80610180              |
| 8"   | 13" | 8" C  | 12" ANSI | 50-80612180              |
| 8"   | 13" | 8" C  | 14" ANSI | 50-80614180              |
| 10"  | 13" | 10" C | 12" ANSI | 50-100612180             |
| 10"  | 13" | 10" C | 14" ANSI | 50-100614180             |
| 12"  | 13" | 12" C | 14" ANSI | 50-120614180             |
| 12"  | 13" | 12" C | 16" ANSI | 50-120616180             |
| 14"  | 13" | 14" C | 16" ANSI | 50-140616180             |
| 14"  | 13" | 14" C | 18" ANSI | 50-140618180             |
| 16"  | 13" | 16" C | 18" ANSI | 50-160618180             |
| 18"  | 13" | 18" C | 20" ANSI | 50-180620180             |
| 18"  | 13" | 18" C | 22" ANSI | 50-180622180             |

## 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095180               |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096180               |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096180               |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098180               |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098180               |
| 8"   | 16" | 6" C  | 10" ANSI | 50-50910180              |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910180              |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912180              |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914180              |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912180             |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914180             |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914180             |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916180             |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916180             |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918180             |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918180             |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920180             |
| 18"  | 16" | 18" C | 22" ANSI | 50-180922180             |

## 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125180              |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126180              |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126180              |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128180              |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128180              |
| 8"   | 19" | 6" C  | 10" ANSI | 50-501210180             |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210180             |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212180             |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214180             |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212180            |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214180            |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214180            |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216180            |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216180            |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218180            |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218180            |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220180            |
| 18"  | 19" | 18" C | 22" ANSI | 50-1801222180            |

**FOR STAINLESS STEEL FLANGES ADD TO THE END OF THE PART NUMBER -304 FOR T-304 S/S AND -316 FOR T-316 S/S**

\*\* THE INTEGRAL VANSTONE STUB END IS FORMED WITH THE CONTINUATION OF THE BELLOWS TUBE . THERE IS NO WELDING INVOLVED IN THIS VANSTONE MAKING IT LESS PRONE TO FAILURE



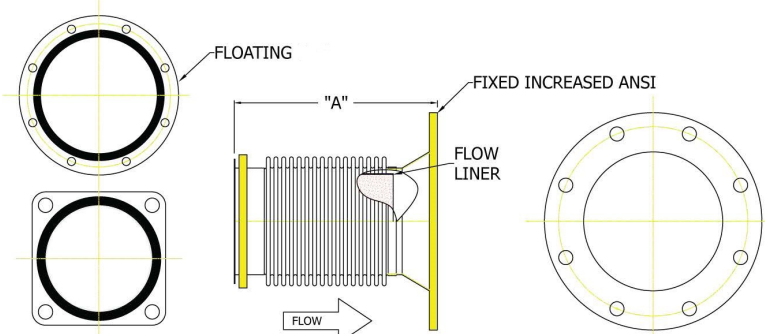
**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
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[BELLOWS DATA](#)

# C-MANIFOLD EXPANSION JOINTS

1. T-321 S/S BELLOWS **SINGLE-PLY**
  2. FLOATING C/S C-MANIFOLD INLET FLANGE
  3. *INTEGRAL* T-321 S/S VANSTONE STUB END \*\*
  4. INCREASING CONE T304 S/S
  5. FIXED 150# DRILLED ANSI OUTLET FLANGE
  6. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

## 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 13" | 4" C  | 5" ANSI  | CALL                      |
| 4"   | 13" | 4" C  | 6" ANSI  | CALL                      |
| 5"   | 13" | 5" C  | 6" ANSI  | CALL                      |
| 5"   | 13" | 5" C  | 8" ANSI  | CALL                      |
| 6"   | 13" | 6" C  | 8" ANSI  | CALL                      |
| 8"   | 13" | 6" C  | 10" ANSI | CALL                      |
| 8"   | 13" | 8" C  | 10" ANSI | CALL                      |
| 8"   | 13" | 8" C  | 12" ANSI | CALL                      |
| 8"   | 13" | 8" C  | 14" ANSI | CALL                      |
| 10"  | 13" | 10" C | 12" ANSI | CALL                      |
| 10"  | 13" | 10" C | 14" ANSI | CALL                      |
| 12"  | 13" | 12" C | 14" ANSI | CALL                      |
| 12"  | 13" | 12" C | 16" ANSI | CALL                      |
| 14"  | 13" | 14" C | 16" ANSI | CALL                      |
| 14"  | 13" | 14" C | 18" ANSI | CALL                      |
| 16"  | 13" | 16" C | 18" ANSI | CALL                      |
| 18"  | 13" | 18" C | 20" ANSI | CALL                      |
| 18"  | 13" | 18" C | 22" ANSI | CALL                      |

## 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095185                |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096185                |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096185                |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098185                |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098185                |
| 8"   | 16" | 6" C  | 10" ANSI | 50-50910185               |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910185               |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912185               |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914185               |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912185              |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914185              |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914185              |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916185              |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916185              |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918185              |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918185              |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920185              |
| 18"  | 16" | 18" C | 22" ANSI | 50-180922185              |

## 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY<br>PART NUMBER |
|------|-----|-------|----------|---------------------------|
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125185               |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126185               |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126185               |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128185               |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128185               |
| 8"   | 19" | 6" C  | 10" ANSI | 50-501210185              |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210185              |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212185              |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214185              |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212185             |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214185             |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214185             |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216185             |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216185             |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218185             |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218185             |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220185             |
| 18"  | 19" | 18" C | 22" ANSI | 50-1801222185             |

**FOR STAINLESS STEEL FLANGES ADD TO THE END OF THE PART NUMBER -304 FOR T-304 S/S AND -316 FOR T-316 S/S**

**\*\* THE INTEGRAL VANSTONE STUB END IS FORMED WITH THE CONTINUATION OF THE BELLOWS TUBE . THERE IS NO WELDING INVOLVED IN THIS VANSTONE MAKING IT LESS PRONE TO FAILURE**



**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:  
6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

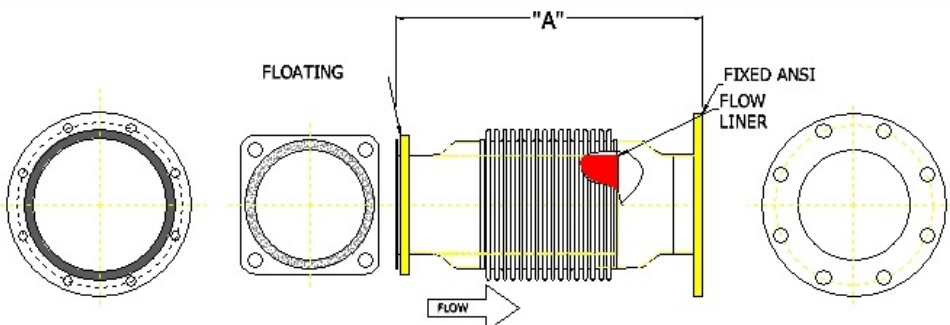
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**BELLOWS DATA**

# MAX FLOW EXPANSION JOINTS

## FIXED X FLOATING

1. T-321 S/S OVERSIZED BELLOWS **MULTI-PLY**
  2. FLOATING C/S C-MANIFOLD INLET FLANGE
  3. T-304 S/S VANSTONE STUB END
  4. FIXED 150# DRILLED ANSI OUTLET FLANGE
  5. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

### 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 13" | 4" C  | 4" ANSI  | 50-4064190               |
| 4"   | 13" | 4" C  | 5" ANSI  | 50-4065190               |
| 4"   | 13" | 4" C  | 6" ANSI  | 50-4066190               |
| 5"   | 13" | 5" C  | 5" ANSI  | 50-5065190               |
| 5"   | 13" | 5" C  | 6" ANSI  | 50-5066190               |
| 5"   | 13" | 5" C  | 8" ANSI  | 50-5068190               |
| 6"   | 13" | 6" C  | 6" ANSI  | 50-6066190               |
| 6"   | 13" | 6" C  | 8" ANSI  | 50-6068190               |
| 6"   | 13" | 6" C  | 10" ANSI | 50-50610190              |
| 8"   | 13" | 8" C  | 8" ANSI  | 50-8068190               |
| 8"   | 13" | 8" C  | 10" ANSI | 50-80610190              |
| 8"   | 13" | 8" C  | 12" ANSI | 50-80612190              |
| 8"   | 13" | 8" C  | 14" ANSI | 50-80614190              |
| 10"  | 13" | 10" C | 10" ANSI | 80-100610190             |
| 10"  | 13" | 10" C | 12" ANSI | 50-100612190             |
| 10"  | 13" | 10" C | 14" ANSI | 50-100614190             |
| 12"  | 13" | 12" C | 12" ANSI | 50-120612190             |
| 12"  | 13" | 12" C | 14" ANSI | 50-120614190             |
| 12"  | 13" | 12" C | 16" ANSI | 50-120616190             |
| 14"  | 13" | 14" C | 14" ANSI | 50-140614190             |
| 14"  | 13" | 14" C | 16" ANSI | 50-140616190             |
| 14"  | 13" | 14" C | 18" ANSI | 50-140618190             |
| 16"  | 13" | 16" C | 16" ANSI | 50-160616190             |
| 16"  | 13" | 16" C | 18" ANSI | 50-160618190             |
| 18"  | 13" | 18" C | 18" ANSI | 50-180618190             |
| 18"  | 13" | 18" C | 20" ANSI | 50-180620190             |

### 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 16" | 4" C  | 4" ANSI  | 50-4094190               |
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095190               |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096190               |
| 5"   | 16" | 5" C  | 5" ANSI  | 50-5095190               |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096190               |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098190               |
| 6"   | 16" | 6" C  | 6" ANSI  | 50-6096190               |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098190               |
| 6"   | 16" | 6" C  | 10" ANSI | 50-50910190              |
| 8"   | 16" | 8" C  | 8" ANSI  | 50-8098190               |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910190              |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912190              |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914190              |
| 10"  | 16" | 10" C | 10" ANSI | 80-100910190             |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912190             |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914190             |
| 12"  | 16" | 12" C | 12" ANSI | 50-120912190             |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914190             |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916190             |
| 14"  | 16" | 14" C | 14" ANSI | 50-140914190             |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916190             |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918190             |
| 16"  | 16" | 16" C | 16" ANSI | 50-160916190             |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918190             |
| 18"  | 16" | 18" C | 18" ANSI | 50-180918190             |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920190             |

### 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY<br>PART NUMBER |
|------|-----|-------|----------|--------------------------|
| 4"   | 19" | 4" C  | 4" ANSI  | 50-40124190              |
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125190              |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126190              |
| 5"   | 19" | 5" C  | 5" ANSI  | 50-50125190              |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126190              |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128190              |
| 6"   | 19" | 6" C  | 6" ANSI  | 50-60126190              |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128190              |
| 6"   | 19" | 6" C  | 10" ANSI | 50-501210190             |
| 8"   | 19" | 8" C  | 8" ANSI  | 50-80128190              |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210190             |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212190             |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214190             |
| 10"  | 19" | 10" C | 10" ANSI | 80-1001210190            |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212190            |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214190            |
| 12"  | 19" | 12" C | 12" ANSI | 50-1201212190            |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214190            |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216190            |
| 14"  | 19" | 14" C | 14" ANSI | 50-1401214190            |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216190            |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218190            |
| 16"  | 19" | 16" C | 16" ANSI | 50-1601216190            |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218190            |
| 18"  | 19" | 18" C | 18" ANSI | 50-1801218190            |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220190            |



**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
**6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

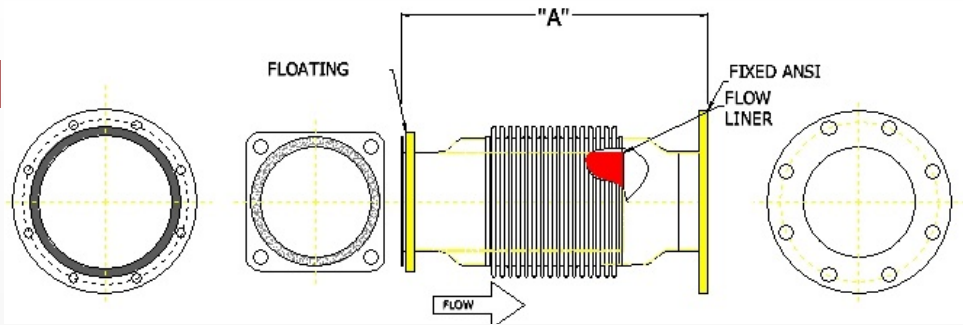
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**BELLOWS DATA**

# MAX FLOW EXPANSION JOINTS

## FIXED X FLOATING

1. T-321 S/S OVERSIZED BELLOWS **SINGLE-PLY**
  2. FLOATING C/S C-MANIFOLD INLET FLANGE
  3. T-304 S/S VANSTONE STUB END
  4. FIXED 150# DRILLED ANSI OUTLET FLANGE
  5. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

### 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY |
|------|-----|-------|----------|------------|
| 4"   | 13" | 4" C  | 4" ANSI  | CALL       |
| 4"   | 13" | 4" C  | 5" ANSI  | CALL       |
| 4"   | 13" | 4" C  | 6" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 5" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 6" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 8" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 6" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 8" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 10" ANSI | CALL       |
| 8"   | 13" | 8" C  | 8" ANSI  | CALL       |
| 8"   | 13" | 8" C  | 10" ANSI | CALL       |
| 8"   | 13" | 8" C  | 12" ANSI | CALL       |
| 8"   | 13" | 8" C  | 14" ANSI | CALL       |
| 10"  | 13" | 10" C | 10" ANSI | CALL       |
| 10"  | 13" | 10" C | 12" ANSI | CALL       |
| 10"  | 13" | 10" C | 14" ANSI | CALL       |
| 12"  | 13" | 12" C | 12" ANSI | CALL       |
| 12"  | 13" | 12" C | 14" ANSI | CALL       |
| 12"  | 13" | 12" C | 16" ANSI | CALL       |
| 14"  | 13" | 14" C | 14" ANSI | CALL       |
| 14"  | 13" | 14" C | 16" ANSI | CALL       |
| 14"  | 13" | 14" C | 18" ANSI | CALL       |
| 16"  | 13" | 16" C | 16" ANSI | CALL       |
| 16"  | 13" | 16" C | 18" ANSI | CALL       |
| 18"  | 13" | 18" C | 18" ANSI | CALL       |
| 18"  | 13" | 18" C | 20" ANSI | CALL       |

### 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY   |
|------|-----|-------|----------|--------------|
| 4"   | 16" | 4" C  | 4" ANSI  | 50-4094195   |
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095195   |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096195   |
| 5"   | 16" | 5" C  | 5" ANSI  | 50-5095195   |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096195   |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098195   |
| 6"   | 16" | 6" C  | 6" ANSI  | 50-6096195   |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098195   |
| 6"   | 16" | 6" C  | 10" ANSI | 50-50910195  |
| 8"   | 16" | 8" C  | 8" ANSI  | 50-8098195   |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910195  |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912195  |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914195  |
| 10"  | 16" | 10" C | 10" ANSI | 80-100910195 |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912195 |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914195 |
| 12"  | 16" | 12" C | 12" ANSI | 50-120912195 |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914195 |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916195 |
| 14"  | 16" | 14" C | 14" ANSI | 50-140914195 |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916195 |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918195 |
| 16"  | 16" | 16" C | 16" ANSI | 50-160916195 |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918195 |
| 18"  | 16" | 18" C | 18" ANSI | 50-180918195 |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920195 |

### 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY    |
|------|-----|-------|----------|---------------|
| 4"   | 19" | 4" C  | 4" ANSI  | 50-40124195   |
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125195   |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126195   |
| 5"   | 19" | 5" C  | 5" ANSI  | 50-50125195   |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126195   |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128195   |
| 6"   | 19" | 6" C  | 6" ANSI  | 50-60126195   |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128195   |
| 6"   | 19" | 6" C  | 10" ANSI | 50-501210195  |
| 8"   | 19" | 8" C  | 8" ANSI  | 50-80128195   |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210195  |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212195  |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214195  |
| 10"  | 19" | 10" C | 10" ANSI | 80-1001210195 |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212195 |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214195 |
| 12"  | 19" | 12" C | 12" ANSI | 50-1201212195 |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214195 |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216195 |
| 14"  | 19" | 14" C | 14" ANSI | 50-1401214195 |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216195 |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218195 |
| 16"  | 19" | 16" C | 16" ANSI | 50-1601216195 |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218195 |
| 18"  | 19" | 18" C | 18" ANSI | 50-1801218195 |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220195 |



**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
**6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

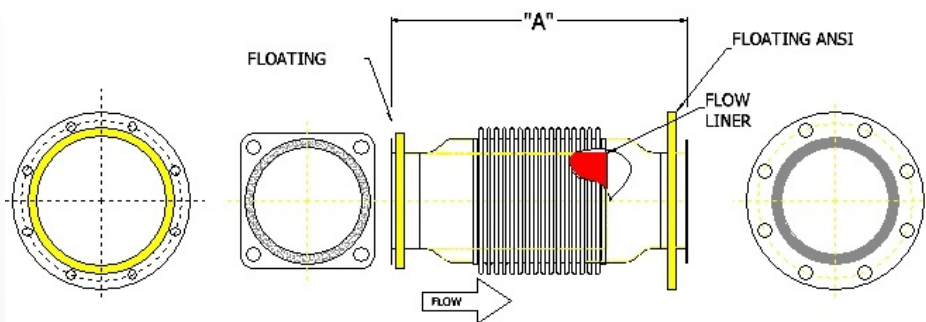
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**BELLOWS DATA**

# MAX FLOW EXPANSION JOINTS

## FLOATING X FLOATING

1. T-321 S/S OVERSIZED BELLOWS **MULTI-PLY**
  2. FLOATING C/S C-MANIFOLD INLET FLANGE
  3. T-304 S/S VANSTONE STUB END
  4. FLOATING 150# DRILLED ANSI OUTLET FLANGE
  5. T-304 S/S FLOW LINER (OPTIONAL)
- DESIGN PER EJMA 9TH EDITION
  - WELDING PER ASME SECTION IX



For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N

### 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY    |
|------|-----|-------|----------|--------------|
| 4"   | 13" | 4" C  | 4" ANSI  | 50-4064200   |
| 4"   | 13" | 4" C  | 5" ANSI  | 50-4065200   |
| 4"   | 13" | 4" C  | 6" ANSI  | 50-4066200   |
| 5"   | 13" | 5" C  | 5" ANSI  | 50-5065200   |
| 5"   | 13" | 5" C  | 6" ANSI  | 50-5066200   |
| 5"   | 13" | 5" C  | 8" ANSI  | 50-5068200   |
| 6"   | 13" | 6" C  | 6" ANSI  | 50-6066200   |
| 6"   | 13" | 6" C  | 8" ANSI  | 50-6068200   |
| 6"   | 13" | 6" C  | 10" ANSI | 50-50610200  |
| 8"   | 13" | 8" C  | 8" ANSI  | 50-8068200   |
| 8"   | 13" | 8" C  | 10" ANSI | 50-80610200  |
| 8"   | 13" | 8" C  | 12" ANSI | 50-80612200  |
| 8"   | 13" | 8" C  | 14" ANSI | 50-80614200  |
| 10"  | 13" | 10" C | 10" ANSI | 80-100610200 |
| 10"  | 13" | 10" C | 12" ANSI | 50-100612200 |
| 10"  | 13" | 10" C | 14" ANSI | 50-100614200 |
| 12"  | 13" | 12" C | 12" ANSI | 50-120612200 |
| 12"  | 13" | 12" C | 14" ANSI | 50-120614200 |
| 12"  | 13" | 12" C | 16" ANSI | 50-120616200 |
| 14"  | 13" | 14" C | 14" ANSI | 50-140614200 |
| 14"  | 13" | 14" C | 16" ANSI | 50-140616200 |
| 14"  | 13" | 14" C | 18" ANSI | 50-140618200 |
| 16"  | 13" | 16" C | 16" ANSI | 50-160616200 |
| 16"  | 13" | 16" C | 18" ANSI | 50-160618200 |
| 18"  | 13" | 18" C | 18" ANSI | 50-180618200 |
| 18"  | 13" | 18" C | 20" ANSI | 50-180620200 |

### 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY    |
|------|-----|-------|----------|--------------|
| 4"   | 16" | 4" C  | 4" ANSI  | 50-4094200   |
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095200   |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096200   |
| 5"   | 16" | 5" C  | 5" ANSI  | 50-5095200   |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096200   |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098200   |
| 6"   | 16" | 6" C  | 6" ANSI  | 50-6096200   |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098200   |
| 6"   | 16" | 6" C  | 10" ANSI | 50-50910200  |
| 8"   | 16" | 8" C  | 8" ANSI  | 50-8098200   |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910200  |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912200  |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914200  |
| 10"  | 16" | 10" C | 10" ANSI | 80-100910200 |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912200 |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914200 |
| 12"  | 16" | 12" C | 12" ANSI | 50-120912200 |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914200 |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916200 |
| 14"  | 16" | 14" C | 14" ANSI | 50-140914200 |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916200 |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918200 |
| 16"  | 16" | 16" C | 16" ANSI | 50-160916200 |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918200 |
| 18"  | 16" | 18" C | 18" ANSI | 50-180918200 |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920200 |

### 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | MULTI-PLY     |
|------|-----|-------|----------|---------------|
| 4"   | 19" | 4" C  | 4" ANSI  | 50-40124200   |
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125200   |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126200   |
| 5"   | 19" | 5" C  | 5" ANSI  | 50-50125200   |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126200   |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128200   |
| 6"   | 19" | 6" C  | 6" ANSI  | 50-60126200   |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128200   |
| 6"   | 19" | 6" C  | 10" ANSI | 50-501210200  |
| 8"   | 19" | 8" C  | 8" ANSI  | 50-80128200   |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210200  |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212200  |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214200  |
| 10"  | 19" | 10" C | 10" ANSI | 80-1001210200 |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212200 |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214200 |
| 12"  | 19" | 12" C | 12" ANSI | 50-1201212200 |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214200 |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216200 |
| 14"  | 19" | 14" C | 14" ANSI | 50-1401214200 |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216200 |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218200 |
| 16"  | 19" | 16" C | 16" ANSI | 50-1601216200 |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218200 |
| 18"  | 19" | 18" C | 18" ANSI | 50-1801218200 |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220200 |



**INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:**  
**6" AND UNDER 4 FT / SEC / INCH OF DIAMETER      8" AND OVER 25 FT / SECOND**

**INDEX**

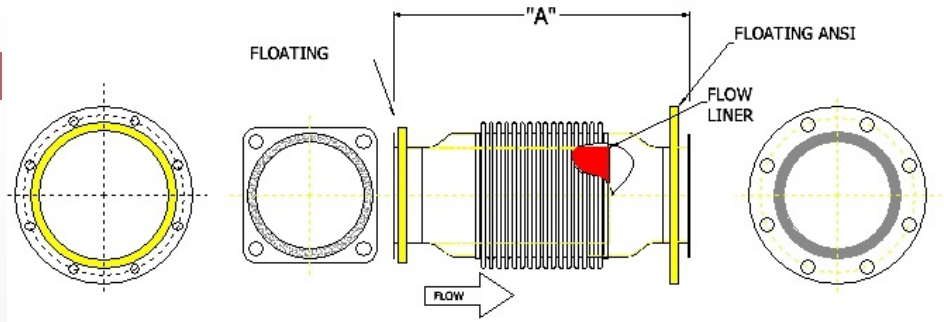
**BELLOWS DATA**

# MAX FLOW EXPANSION JOINTS

## FLOATING X FLOATING

1. T-321 S/S OVERSIZED BELLOWS **SINGLE-PLY**
2. FLOATING C/S C-MANIFOLD INLET FLANGE
3. T-304 S/S VANSTONE STUB END
4. FLOATING 150# DRILLED ANSI OUTLET FLANGE
5. T-304 S/S FLOW LINER (OPTIONAL)

- DESIGN PER EJMA 9TH EDITION
- WELDING PER ASME SECTION IX **For Alloy X bellows add: -X, Inconel 625 bellows add: -625, optional flow liner add -L to end of P/N**



### 6" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY |
|------|-----|-------|----------|------------|
| 4"   | 13" | 4" C  | 4" ANSI  | CALL       |
| 4"   | 13" | 4" C  | 5" ANSI  | CALL       |
| 4"   | 13" | 4" C  | 6" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 5" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 6" ANSI  | CALL       |
| 5"   | 13" | 5" C  | 8" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 6" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 8" ANSI  | CALL       |
| 6"   | 13" | 6" C  | 10" ANSI | CALL       |
| 8"   | 13" | 8" C  | 8" ANSI  | CALL       |
| 8"   | 13" | 8" C  | 10" ANSI | CALL       |
| 8"   | 13" | 8" C  | 12" ANSI | CALL       |
| 8"   | 13" | 8" C  | 14" ANSI | CALL       |
| 10"  | 13" | 10" C | 10" ANSI | CALL       |
| 10"  | 13" | 10" C | 12" ANSI | CALL       |
| 10"  | 13" | 10" C | 14" ANSI | CALL       |
| 12"  | 13" | 12" C | 12" ANSI | CALL       |
| 12"  | 13" | 12" C | 14" ANSI | CALL       |
| 12"  | 13" | 12" C | 16" ANSI | CALL       |
| 14"  | 13" | 14" C | 14" ANSI | CALL       |
| 14"  | 13" | 14" C | 16" ANSI | CALL       |
| 14"  | 13" | 14" C | 18" ANSI | CALL       |
| 16"  | 13" | 16" C | 16" ANSI | CALL       |
| 16"  | 13" | 16" C | 18" ANSI | CALL       |
| 18"  | 13" | 18" C | 18" ANSI | CALL       |
| 18"  | 13" | 18" C | 20" ANSI | CALL       |

### 9" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY   |
|------|-----|-------|----------|--------------|
| 4"   | 16" | 4" C  | 4" ANSI  | 50-4094205   |
| 4"   | 16" | 4" C  | 5" ANSI  | 50-4095205   |
| 4"   | 16" | 4" C  | 6" ANSI  | 50-4096205   |
| 5"   | 16" | 5" C  | 5" ANSI  | 50-5095205   |
| 5"   | 16" | 5" C  | 6" ANSI  | 50-5096205   |
| 5"   | 16" | 5" C  | 8" ANSI  | 50-5098205   |
| 6"   | 16" | 6" C  | 6" ANSI  | 50-6096205   |
| 6"   | 16" | 6" C  | 8" ANSI  | 50-6098205   |
| 6"   | 16" | 6" C  | 10" ANSI | 50-50910205  |
| 8"   | 16" | 8" C  | 8" ANSI  | 50-8098205   |
| 8"   | 16" | 8" C  | 10" ANSI | 50-80910205  |
| 8"   | 16" | 8" C  | 12" ANSI | 50-80912205  |
| 8"   | 16" | 8" C  | 14" ANSI | 50-80914205  |
| 10"  | 16" | 10" C | 10" ANSI | 80-100910205 |
| 10"  | 16" | 10" C | 12" ANSI | 50-100912205 |
| 10"  | 16" | 10" C | 14" ANSI | 50-100914205 |
| 12"  | 16" | 12" C | 12" ANSI | 50-120912205 |
| 12"  | 16" | 12" C | 14" ANSI | 50-120914205 |
| 12"  | 16" | 12" C | 16" ANSI | 50-120916205 |
| 14"  | 16" | 14" C | 14" ANSI | 50-140914205 |
| 14"  | 16" | 14" C | 16" ANSI | 50-140916205 |
| 14"  | 16" | 14" C | 18" ANSI | 50-140918205 |
| 16"  | 16" | 16" C | 16" ANSI | 50-160916205 |
| 16"  | 16" | 16" C | 18" ANSI | 50-160918205 |
| 18"  | 16" | 18" C | 18" ANSI | 50-180918205 |
| 18"  | 16" | 18" C | 20" ANSI | 50-180920205 |

### 12" BELLOWS LENGTH

| SIZE | "A" | INLET | OUTLET   | SINGLE-PLY    |
|------|-----|-------|----------|---------------|
| 4"   | 19" | 4" C  | 4" ANSI  | 50-40124205   |
| 4"   | 19" | 4" C  | 5" ANSI  | 50-40125205   |
| 4"   | 19" | 4" C  | 6" ANSI  | 50-40126205   |
| 5"   | 19" | 5" C  | 5" ANSI  | 50-50125205   |
| 5"   | 19" | 5" C  | 6" ANSI  | 50-50126205   |
| 5"   | 19" | 5" C  | 8" ANSI  | 50-50128205   |
| 6"   | 19" | 6" C  | 6" ANSI  | 50-60126205   |
| 6"   | 19" | 6" C  | 8" ANSI  | 50-60128205   |
| 6"   | 19" | 6" C  | 10" ANSI | 50-501210205  |
| 8"   | 19" | 8" C  | 8" ANSI  | 50-80128205   |
| 8"   | 19" | 8" C  | 10" ANSI | 50-801210205  |
| 8"   | 19" | 8" C  | 12" ANSI | 50-801212205  |
| 8"   | 19" | 8" C  | 14" ANSI | 50-801214205  |
| 10"  | 19" | 10" C | 10" ANSI | 80-1001210205 |
| 10"  | 19" | 10" C | 12" ANSI | 50-1001212205 |
| 10"  | 19" | 10" C | 14" ANSI | 50-1001214205 |
| 12"  | 19" | 12" C | 12" ANSI | 50-1201212205 |
| 12"  | 19" | 12" C | 14" ANSI | 50-1201214205 |
| 12"  | 19" | 12" C | 16" ANSI | 50-1201216205 |
| 14"  | 19" | 14" C | 14" ANSI | 50-1401214205 |
| 14"  | 19" | 14" C | 16" ANSI | 50-1401216205 |
| 14"  | 19" | 14" C | 18" ANSI | 50-1401218205 |
| 16"  | 19" | 16" C | 16" ANSI | 50-1601216205 |
| 16"  | 19" | 16" C | 18" ANSI | 50-1601218205 |
| 18"  | 19" | 18" C | 18" ANSI | 50-1801218205 |
| 18"  | 19" | 18" C | 20" ANSI | 50-1801220205 |



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