

MARINE EXPANSION JOINT

Stainless Steel Marine Bellows  
Expansion Joint CBM1033-81

It is mainly used in the pipeline of internal combustion engine. As a compensator for heat expansion and contraction of pipeline, it can withstand the vibration caused by thermal expansion stress and pulse in the system....

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Category      | Marine Expansion Joint                                                      |
| Standard      | JIS                                                                         |
| Material      | ≤550℃ Flange connection standard DN≤500mm conform to CBM1033-81(JIS2221-... |
| Weight / Size | ≤550℃ Flange connection standard DN≤500mm conform to CBM1033-81(JIS2221-... |
| Certificate   | ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS                                  |

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

| Technical Specifications |                        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                 | Marine Expansion Joint | Model / SKU | Stainless-Steel-Marine-Bellows-Expansion-Joint-CBM1033-81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Standard                 | JIS                    | Material    | ≤550℃ Flange connection<br>standard DN≤500mm conform to CBM1033-81(JIS2221-1974)<br>DN≥500mm conform to JISF7805-1976 Structure Stainless Steel<br>Marine Bellows Expansion Joint<br>CBM1033-81 Main Specifications<br>DN Structure size Flange Bolt d L<br>n D1 D2 d d0 Num Th 65 76 210<br>10 155 130 12 15 4 M12 80 89<br>210 10 180 145 12 19 4 M16 100<br>114 220 6 200 165 12 19 8 M16<br>125 140 220 6 235 200 12 19 8<br>M16 150 165 185 3 265 230 14 19<br>8 M16 175 190 185 3 300 260 14<br>19 8 M16 200 216 260 3 320 280<br>14 19 8 M16 360 5 320 280 14 19<br>8 M16 250 268 280 3 385 345 16<br>19 12 M16 380 5 385 345 16 19<br>12 M16 300 318 280 3 430 390 16<br>23 12 M20 380 5 430 390 16 23<br>12 M20 350 360 280 3 480 435 16<br>23 12 M20 380 5 480 435 16 23<br>12 M20 400 410 280 3 540 495 16<br>23 16 M20 380 5 540 495 16 23<br>16 M20 450 460 280 3 605 555 16<br>23 16 M20 380 5 605 555 16 23<br>16 M20 500 510 280 3 655 605 16<br>23 16 M20 380 5 655 605 16 23<br>16 M20 600 610 280 3 710 670 16<br>23 16 M20 380 5 710 670 16 23<br>16 M20 700 711 280 3 815 775 16<br>23 16 M20 380 5 815 775 16 23<br>16 M20 800 813 280 3 915 875 16<br>23 16 M20 380 5 915 875 16 23<br>20 M20 900 914 290 3 1025 980<br>18 25 20 M22 390 5 1025 980 18<br>25 20 M22 1000 1016 310 3 1125<br>1080 18 25 20 M22 1100 1116 310<br>3 1225 1180 18 25 24 M22 1200<br>1219 310 3 1325 1280 18 25 24<br>M22 1300 1312 310 3 1425 1380<br>18 25 28 M22 1400 1412 310 3<br>1525 1480 20 25 28 M22 1500<br>1524 315 3 1645 1590 20 27 28<br>M24 |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| <b>Weight / Size</b> | ≤550℃ Flange connection<br>standard DN≤500mm conform to<br>CBM1033-81(JIS2221-1974)<br>DN≥500mm conform to JISF7805-<br>1976 Structure Stainless Steel<br>Marine Bellows Expansion Joint<br>CBM1033-81 Main Specifications<br>DN Structure size Flange Bolt d L<br>n D1 D2 d d0 Num Th 65 76 210<br>10 155 130 12 15 4 M12 80 89<br>210 10 180 145 12 19 4 M16 100<br>114 220 6 200 165 12 19 8 M16<br>125 140 220 6 235 200 12 19 8<br>M16 150 165 185 3 265 230 14 19<br>8 M16 175 190 185 3 300 260 14<br>19 8 M16 200 216 260 3 320 280<br>14 19 8 M16 360 5 320 280 14 19<br>8 M16 250 268 280 3 385 345 16<br>19 12 M16 380 5 385 345 16 19<br>12 M16 300 318 280 3 430 390 16<br>23 12 M20 380 5 430 390 16 23<br>12 M20 350 360 280 3 480 435 16<br>23 12 M20 380 5 480 435 16 23<br>12 M20 400 410 280 3 540 495 16<br>23 16 M20 380 5 540 495 16 23<br>16 M20 450 460 280 3 605 555 16<br>23 16 M20 380 5 605 555 16 23<br>16 M20 500 510 280 3 655 605 16<br>23 16 M20 380 5 655 605 16 23<br>16 M20 600 610 280 3 710 670 16<br>23 16 M20 380 5 710 670 16 23<br>16 M20 700 711 280 3 815 775 16<br>23 16 M20 380 5 815 775 16 23<br>16 M20 800 813 280 3 915 875 16<br>23 16 M20 380 5 915 875 16 23<br>20 M20 900 914 290 3 1025 980<br>18 25 20 M22 390 5 1025 980 18<br>25 20 M22 1000 1016 310 3 1125<br>1080 18 25 20 M22 1100 1116 310<br>3 1225 1180 18 25 24 M22 1200<br>1219 310 3 1325 1280 18 25 24<br>M22 1300 1312 310 3 1425 1380<br>18 25 28 M22 1400 1412 310 3<br>1525 1480 20 25 28 M22 1500<br>1524 315 3 1645 1590 20 27 28<br>M24 | <b>Certificate</b> | ABS, LR, BV, DNVGL, NK, KR,<br>IRS, RMRS, CCS |
| <b>Warranty</b>      | 12 Months unless specified<br>otherwise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Origin</b>      | China                                         |

## CONTENTS

- China Stainless Steel Marine Bellows Expansion Joint CBM1033-81:
  - Structure
- Flange connection standard
- Stainless Steel Marine Bellows Expansion Joint CBM1033-81 Main Specifications

## China Stainless Steel Marine Bellows Expansion Joint CBM1033-81:

It is mainly used in the pipeline of internal combustion engine. As a compensator for heat expansion and contraction of pipeline, it can withstand the vibration caused by thermal expansion stress and pulse in the system.

Nominal pressure: 0.05MPa

Nominal diameter: 65-1500mm

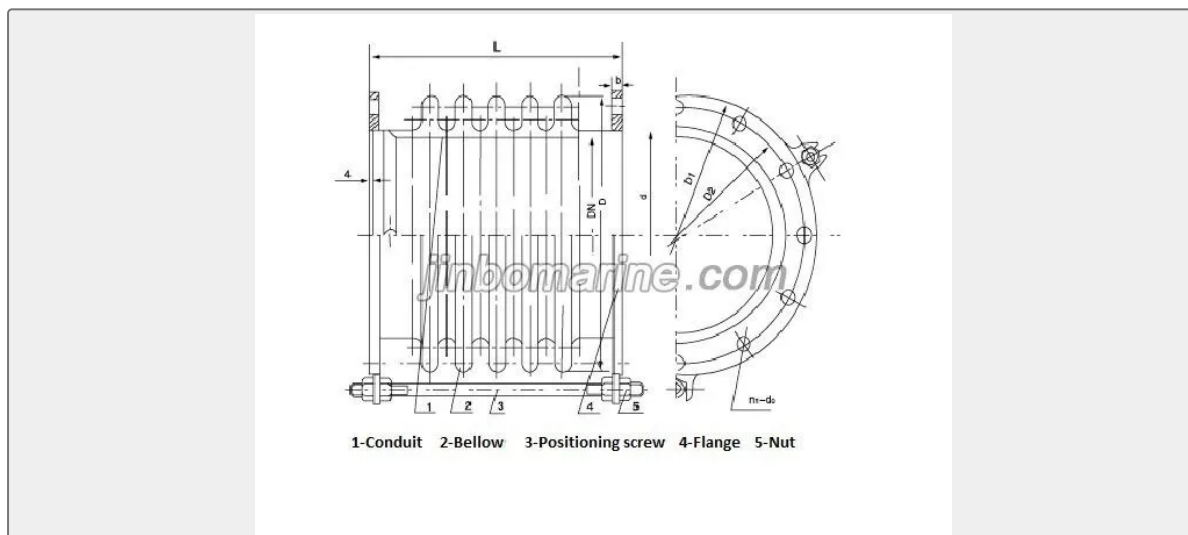
Applicable temperature:  $\leq 550^{\circ}\text{C}$

## Flange connection standard

DN $\leq$ 500mm conform to CBM1033-81(JIS2221-1974)

DN $\geq$ 500mm conform to JISF7805-1976

## Structure



## Stainless Steel Marine Bellows Expansion Joint CBM1033-81 Main Specifications

| DN  | Structure size |     |    | Flange |     |    |    | Bolt |     |
|-----|----------------|-----|----|--------|-----|----|----|------|-----|
|     | d              | L   | n  | D1     | D2  | d  | d0 | Num  | Th  |
| 65  | 76             | 210 | 10 | 155    | 130 | 12 | 15 | 4    | M12 |
| 80  | 89             | 210 | 10 | 180    | 145 | 12 | 19 | 4    | M16 |
| 100 | 114            | 220 | 6  | 200    | 165 | 12 | 19 | 8    | M16 |
| 125 | 140            | 220 | 6  | 235    | 200 | 12 | 19 | 8    | M16 |
| 150 | 165            | 185 | 3  | 265    | 230 | 14 | 19 | 8    | M16 |
| 175 | 190            | 185 | 3  | 300    | 260 | 14 | 19 | 8    | M16 |

|      |      |     |   |      |      |    |    |    |     |
|------|------|-----|---|------|------|----|----|----|-----|
| 200  | 216  | 260 | 3 | 320  | 280  | 14 | 19 | 8  | M16 |
|      |      | 360 | 5 | 320  | 280  | 14 | 19 | 8  | M16 |
| 250  | 268  | 280 | 3 | 385  | 345  | 16 | 19 | 12 | M16 |
|      |      | 380 | 5 | 385  | 345  | 16 | 19 | 12 | M16 |
| 300  | 318  | 280 | 3 | 430  | 390  | 16 | 23 | 12 | M20 |
|      |      | 380 | 5 | 430  | 390  | 16 | 23 | 12 | M20 |
| 350  | 360  | 280 | 3 | 480  | 435  | 16 | 23 | 12 | M20 |
|      |      | 380 | 5 | 480  | 435  | 16 | 23 | 12 | M20 |
| 400  | 410  | 280 | 3 | 540  | 495  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 540  | 495  | 16 | 23 | 16 | M20 |
| 450  | 460  | 280 | 3 | 605  | 555  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 605  | 555  | 16 | 23 | 16 | M20 |
| 500  | 510  | 280 | 3 | 655  | 605  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 655  | 605  | 16 | 23 | 16 | M20 |
| 600  | 610  | 280 | 3 | 710  | 670  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 710  | 670  | 16 | 23 | 16 | M20 |
| 700  | 711  | 280 | 3 | 815  | 775  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 815  | 775  | 16 | 23 | 16 | M20 |
| 800  | 813  | 280 | 3 | 915  | 875  | 16 | 23 | 16 | M20 |
|      |      | 380 | 5 | 915  | 875  | 16 | 23 | 20 | M20 |
| 900  | 914  | 290 | 3 | 1025 | 980  | 18 | 25 | 20 | M22 |
|      |      | 390 | 5 | 1025 | 980  | 18 | 25 | 20 | M22 |
| 1000 | 1016 | 310 | 3 | 1125 | 1080 | 18 | 25 | 20 | M22 |
| 1100 | 1116 | 310 | 3 | 1225 | 1180 | 18 | 25 | 24 | M22 |
| 1200 | 1219 | 310 | 3 | 1325 | 1280 | 18 | 25 | 24 | M22 |
| 1300 | 1312 | 310 | 3 | 1425 | 1380 | 18 | 25 | 28 | M22 |
| 1400 | 1412 | 310 | 3 | 1525 | 1480 | 20 | 25 | 28 | M22 |
| 1500 | 1524 | 315 | 3 | 1645 | 1590 | 20 | 27 | 28 | M24 |