

## WILLBRANDT Axialkompensator mit Festflanschen

### Typ 214

### Typ 215 (mit Innenleitrohr)

Der Typ 214 ist ein mehrlagiger Axialkompensator mit Festflanschen. Er ist speziell konzipiert für den Betrieb in Anlagen mit Betriebsdrücken bis max. 63 barg.

Dieser Kompensator lässt sowohl axiale, laterale wie auch angulare Bewegungen zu.

#### Beschreibung

Neben den aufgeführten Standardbaulängen kann er speziell auf Ihre Bedürfnisse angepasst gefertigt werden. Dieser Kompensator kann auch in anderen Werkstoffen (siehe Seite 179) gefertigt werden.

Die angegebenen Bewegungen stellen die einzelnen Maximalwerte dar. Zur Ermittlung kombinierter Bewegungsmöglichkeiten verwenden Sie bitte das Bewegungsschaubild auf Seite 10.

#### Anforderungen

- Starke Festpunkte und gute Loslager erforderlich
- Große Bewegungen erfordern den Einsatz mehrerer Axialkompensatoren
- Für lange Rohrleitungsabschnitte werden viele Festpunkte und Loslager benötigt
- Höhere Kosten für Festpunkte und Loslager

#### Vorteile

- Einfache Lösung für die Kompensation von Temperaturschwankungen
- Keine Strömungsumlenkung
- Kompakte und platzsparende Lösung
- Relativ geringe Kosten

## WILLBRANDT Axial expansion joint with fixed flanges

### Type 214

### Type 215 (with internal sleeve)



Type 214 is a multi-layer axial expansion joint with fixed flanges. It is designed specifically for operation in installations with operating pressures up to 63 barg.

This expansion joint allows axial, lateral and angular movements.

#### Description

In addition to the given standard lengths, other lengths are available to meet specific requirements. This expansion joint can also be produced in other materials (see page 179).

The specified movements represent the individual maximum values. For determining combined movements, refer to the movement diagram on page 10.

#### Requirements

- Strong fixed points and good floating bearings necessary
- Large movements require the use of several axial expansion joints
- For long sections of pipeline, numerous fixed points and floating bearings are required
- Higher costs for fixed points and floating bearings

#### Advantages

- Simple solution for temperature fluctuation compensation
- No flow deflection
- Compact and space-saving solution
- Relatively low costs

## WILLBRANDT Axialkompensator mit Festflanschen

### Typ 214

### Typ 215 (mit Innenleitrohr)

|                                           |                                                                                                                                                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Einsatzbeispiele</b>                   | Flüssige, gasförmige oder Medien mit hohem Feststoffanteil (mit Innenleitrohr) z. B. Dampfanlagen, Wasser, Entwässerung, chemische Industrie, Petrochemie etc.                                                                               |
| <b>Standardmäßiger Aufbau</b>             | Mehrlagiger Wellrohrbalg aus 1.4541 mit glatten Flanschen aus C-Stahl (roh).                                                                                                                                                                 |
| <b>Zulässige Betriebsdaten (Standard)</b> | 16 barg / 120 °C gem. EJMA<br>Höhere Drücke auf Anfrage.                                                                                                                                                                                     |
| <b>Zubehör</b>                            | Innenleitrohr, Außenschutzrohr                                                                                                                                                                                                               |
| <b>Hinweis</b>                            | Bei Verwendung von Leitrohren vermindert sich die Möglichkeit der Aufnahme der lateralen oder angularen Bewegungen um mind. 90 %. Bitte beachten Sie bei Ihrer Planung die Medienverträglichkeit der zu verwendenden Kompensatormaterialien. |

## WILLBRANDT Axial expansion joint with fixed flanges

### Typ 214

### Typ 215 (with internal sleeve)

|                                   |                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application examples</b>       | Liquid, gaseous or media with a high solids content (with internal sleeve), e.g. steam plants, water, drainage, chemical industry, petrochemistry, etc.                                                                                                         |
| <b>Standard design</b>            | Single layer corrugated tube bellows of 1.4541 with smooth flanges of carbon steel (raw).                                                                                                                                                                       |
| <b>Permissible operating data</b> | 16 barg / 120 °C acc. to EJMA<br>Higher pressures on request.                                                                                                                                                                                                   |
| <b>Accessories</b>                | Internal sleeve, external protective sleeve                                                                                                                                                                                                                     |
| <b>Note</b>                       | When using internal sleeves, the possibility to compensate for lateral or angular movements reduces by minimum 90 %. To be noted is that the media compatibility of the expansion joint material to be used should be taken into account in the planning phase. |



## Typ 214 Abmessungen

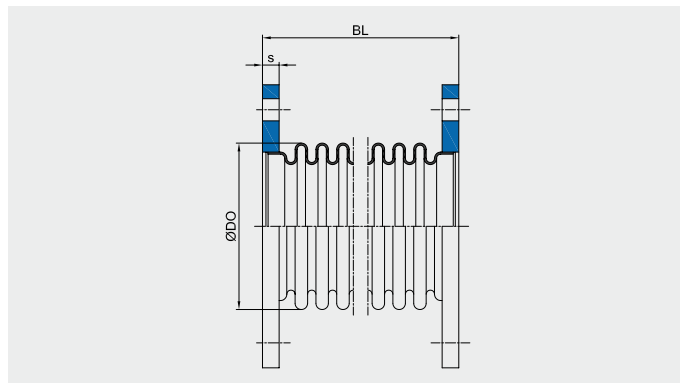
### Ausführung 1

## Type 214 Specifications

### Model 1

**Druckstufe 2,5 barg (PN 2,5)**

**Design pressure 2.5 barg (PN 2.5)**



| DN  | Länge<br>Length | Balg<br>Bellows |           | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                      |                          | Verstellkraftrate<br>Springrate |                       |                          | Gewicht<br>Weight | Artikel<br>Article |
|-----|-----------------|-----------------|-----------|--------------------|-------------------------------|----------------------|--------------------------|---------------------------------|-----------------------|--------------------------|-------------------|--------------------|
|     |                 | BL<br>mm        | ØDO<br>mm |                    | axial<br>25N<br>mm            | lateral<br>2ΔN<br>mm | angular<br>2αN<br>°/deg. | axial<br>Cδ<br>N/mm             | lateral<br>CA<br>N/mm | angular<br>Cα<br>Nm/deg. |                   |                    |
| 50  | 145             | 69              | 28        | 16                 | 23                            | 14                   | 44                       | 94                              | 53                    | 0,8                      | 3,3               | 214-2,5-023-0050   |
| 50  | 215             | 69              | 28        | 16                 | 38                            | 39                   | 50                       | 58                              | 12                    | 0,5                      | 3,4               | 214-2,5-038-0050   |
| 65  | 135             | 87              | 46        | 16                 | 27                            | 12                   | 40                       | 83                              | 98                    | 1,1                      | 4,0               | 214-2,5-027-0065   |
| 65  | 205             | 87              | 46        | 16                 | 43                            | 32                   | 50                       | 82                              | 32                    | 1,1                      | 4,5               | 214-2,5-043-0065   |
| 80  | 130             | 114             | 79        | 18                 | 26                            | 6                    | 29                       | 83                              | 315                   | 1,9                      | 6,4               | 214-2,5-026-0080   |
| 80  | 170             | 114             | 79        | 18                 | 43                            | 17                   | 49                       | 50                              | 77                    | 1,1                      | 6,6               | 214-2,5-043-0080   |
| 80  | 230             | 114             | 79        | 18                 | 65                            | 39                   | 50                       | 33                              | 22                    | 0,8                      | 6,7               | 214-2,5-065-0080   |
| 100 | 135             | 145             | 131       | 18                 | 37                            | 7                    | 32                       | 51                              | 431                   | 1,9                      | 7,2               | 214-2,5-037-0100   |
| 100 | 170             | 144             | 130       | 18                 | 53                            | 15                   | 47                       | 38                              | 129                   | 1,4                      | 7,3               | 214-2,5-053-0100   |
| 100 | 245             | 144             | 129       | 18                 | 92                            | 46                   | 50                       | 35                              | 38                    | 1,3                      | 8,4               | 214-2,5-092-0100   |
| 125 | 140             | 171             | 188       | 20                 | 38                            | 6                    | 28                       | 60                              | 690                   | 3,1                      | 9,5               | 214-2,5-038-0125   |
| 125 | 190             | 171             | 187       | 20                 | 65                            | 18                   | 48                       | 54                              | 205                   | 2,8                      | 10,1              | 214-2,5-065-0125   |
| 125 | 285             | 172             | 186       | 20                 | 97                            | 50                   | 50                       | 61                              | 58                    | 3,1                      | 12,2              | 214-2,5-097-0125   |
| 150 | 155             | 204             | 271       | 20                 | 41                            | 5                    | 25                       | 66                              | 897                   | 5,0                      | 10,5              | 214-2,5-041-0150   |
| 150 | 230             | 204             | 271       | 20                 | 83                            | 24                   | 50                       | 33                              | 108                   | 2,5                      | 11,1              | 214-2,5-083-0150   |
| 150 | 380             | 203             | 266       | 20                 | 123                           | 73                   | 50                       | 62                              | 42                    | 4,6                      | 14,5              | 214-2,5-123-0150   |
| 200 | 165             | 257             | 442       | 22                 | 57                            | 7                    | 27                       | 52                              | 824                   | 6,3                      | 15,1              | 214-2,5-057-0200   |
| 200 | 250             | 259             | 441       | 22                 | 92                            | 24                   | 44                       | 80                              | 318                   | 9,8                      | 18,6              | 214-2,5-092-0200   |
| 200 | 285             | 259             | 444       | 22                 | 114                           | 37                   | 50                       | 42                              | 113                   | 5,2                      | 17,6              | 214-2,5-114-0200   |
| 250 | 170             | 309             | 663       | 24                 | 50                            | 5                    | 19                       | 77                              | 1640                  | 15,0                     | 19,8              | 214-2,5-050-0250   |
| 250 | 290             | 314             | 673       | 24                 | 109                           | 28                   | 42                       | 51                              | 202                   | 9,5                      | 22,5              | 214-2,5-109-0250   |
| 250 | 380             | 313             | 667       | 24                 | 149                           | 56                   | 50                       | 60                              | 115                   | 12,0                     | 28,0              | 214-2,5-149-0250   |
| 300 | 185             | 365             | 927       | 24                 | 63                            | 6                    | 21                       | 91                              | 2810                  | 24,0                     | 26,9              | 214-2,5-063-0300   |
| 300 | 235             | 370             | 943       | 24                 | 118                           | 18                   | 39                       | 27                              | 383                   | 6,9                      | 27,4              | 214-2,5-118-0300   |
| 300 | 395             | 365             | 923       | 24                 | 159                           | 53                   | 50                       | 62                              | 149                   | 16,0                     | 35,9              | 214-2,5-159-0300   |
| 350 | 155             | 404             | 1132      | 26                 | 54                            | 3                    | 16                       | 50                              | 3630                  | 16,0                     | 35,9              | 214-2,5-054-0350   |
| 350 | 230             | 402             | 1126      | 26                 | 117                           | 16                   | 35                       | 29                              | 478                   | 8,9                      | 37,7              | 214-2,5-117-0350   |
| 350 | 385             | 400             | 1113      | 26                 | 167                           | 48                   | 50                       | 58                              | 191                   | 18,0                     | 46,9              | 214-2,5-167-0350   |
| 400 | 210             | 461             | 1478      | 28                 | 78                            | 7                    | 20                       | 77                              | 2560                  | 32,0                     | 44,7              | 214-2,5-078-0400   |
| 400 | 280             | 461             | 1478      | 28                 | 130                           | 20                   | 34                       | 46                              | 604                   | 19,0                     | 46,7              | 214-2,5-130-0400   |
| 400 | 390             | 457             | 1459      | 28                 | 183                           | 45                   | 48                       | 58                              | 274                   | 24,0                     | 54,9              | 214-2,5-183-0400   |
| 450 | 210             | 511             | 1842      | 30                 | 74                            | 6                    | 17                       | 90                              | 4060                  | 46,0                     | 54,7              | 214-2,5-074-0450   |
| 450 | 285             | 511             | 1842      | 30                 | 124                           | 17                   | 29                       | 54                              | 853                   | 28,0                     | 57,0              | 214-2,5-124-0450   |
| 450 | 390             | 510             | 1832      | 30                 | 191                           | 42                   | 45                       | 57                              | 360                   | 29,0                     | 66,2              | 214-2,5-191-0450   |
| 500 | 235             | 566             | 2263      | 30                 | 82                            | 6                    | 17                       | 94                              | 4130                  | 59,0                     | 57,8              | 214-2,5-082-0500   |
| 500 | 330             | 564             | 2254      | 30                 | 140                           | 20                   | 29                       | 58                              | 772                   | 36,0                     | 61,6              | 214-2,5-140-0500   |
| 500 | 440             | 564             | 2248      | 30                 | 211                           | 46                   | 45                       | 61                              | 364                   | 38,0                     | 71,7              | 214-2,5-211-0500   |
| 600 | 270             | 679             | 3257      | 32                 | 75                            | 5                    | 13                       | 167                             | 10500                 | 151,0                    | 79,0              | 214-2,5-075-0600   |
| 600 | 360             | 679             | 3257      | 32                 | 132                           | 15                   | 23                       | 96                              | 1960                  | 87,0                     | 82,8              | 214-2,5-132-0600   |
| 600 | 480             | 679             | 3257      | 32                 | 207                           | 38                   | 36                       | 61                              | 503                   | 55,0                     | 88,6              | 214-2,5-207-0600   |
| 700 | 235             | 777             | 4335      | 24                 | 73                            | 4                    | 11                       | 195                             | 15700                 | 234,0                    | 71,1              | 214-2,5-073-0700   |
| 700 | 325             | 778             | 4341      | 24                 | 131                           | 13                   | 20                       | 107                             | 2910                  | 129,0                    | 75,5              | 214-2,5-131-0700   |
| 700 | 465             | 781             | 4358      | 24                 | 220                           | 35                   | 33                       | 60                              | 678                   | 73,0                     | 84,4              | 214-2,5-220-0700   |
| 800 | 230             | 886             | 5654      | 37                 | 62                            | 2                    | 8                        | 219                             | 44300                 | 344,0                    | 132,0             | 214-2,5-062-0800   |
| 800 | 320             | 886             | 5654      | 37                 | 124                           | 9                    | 16                       | 110                             | 5540                  | 172,0                    | 137,0             | 214-2,5-124-0800   |
| 800 | 470             | 884             | 5640      | 37                 | 219                           | 31                   | 29                       | 65                              | 955                   | 101,0                    | 144,0             | 214-2,5-219-0800   |
| 900 | 250             | 990             | 7110      | 37                 | 63                            | 2                    | 7                        | 225                             | 58100                 | 444,0                    | 146,0             | 214-2,5-063-0900   |
| 900 | 340             | 990             | 7110      | 37                 | 126                           | 8                    | 15                       | 113                             | 7270                  | 222,0                    | 149,0             | 214-2,5-126-0900   |
| 900 | 460             | 990             | 7110      | 37                 | 211                           | 24                   | 25                       | 68                              | 1580                  | 133,0                    | 160,0             | 214-2,5-211-0900   |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
Other dimensions and materials on request.

## Typ 214 Abmessungen

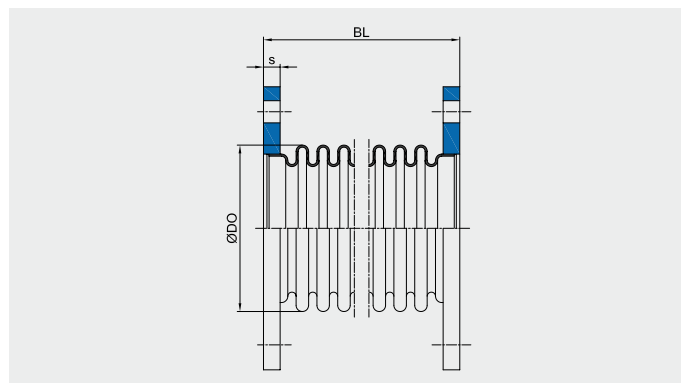
### Ausführung 1

## Type 214 Specifications

### Model 1

### Druckstufe 2,5 barg (PN 2,5)

### Design pressure 2.5 barg (PN 2.5)



| DN   | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                      |                          | Verstellkraftrate<br>Springrate |                       |                          | Gewicht<br>Weight | Artikel<br>Article |
|------|-----------------|----------------|-----------|--------------------|-------------------------------|----------------------|--------------------------|---------------------------------|-----------------------|--------------------------|-------------------|--------------------|
|      |                 | BL<br>mm       | ØDO<br>mm |                    | axial<br>2ΔN<br>mm            | lateral<br>2ΔN<br>mm | angular<br>2αN<br>°/deg. | axial<br>Cδ<br>N/mm             | lateral<br>Cλ<br>N/mm | angular<br>Cα<br>Nm/deg. |                   |                    |
| 1000 | 260             | 1096           | 8749      | 42                 | 66                            | 2                    | 7                        | 214                             | 70700                 | 519,0                    | 177,0             | 214-2,5-066-1000   |
| 1000 | 320             | 1098           | 8765      | 42                 | 115                           | 5                    | 12                       | 120                             | 14400                 | 291,0                    | 183,0             | 214-2,5-115-1000   |
| 1000 | 470             | 1093           | 8724      | 42                 | 211                           | 22                   | 22                       | 72                              | 2050                  | 173,0                    | 193,0             | 214-2,5-211-1000   |
| 1200 | 235             | 1264           | 11794     | 42                 | 80                            | 2                    | 7                        | 212                             | 52400                 | 693,0                    | 205,0             | 214-2,5-080-1200   |
| 1200 | 325             | 1264           | 11813     | 42                 | 136                           | 8                    | 12                       | 131                             | 10100                 | 427,0                    | 213,0             | 214-2,5-136-1200   |
| 1200 | 480             | 1259           | 11765     | 42                 | 211                           | 22                   | 19                       | 92                              | 2210                  | 301,0                    | 224,0             | 214-2,5-211-1200   |
| 1400 | 220             | 1466           | 15980     | 42                 | 62                            | 1                    | 4                        | 304                             | 176000                | 1350,0                   | 233,0             | 214-2,5-062-1400   |
| 1400 | 265             | 1464           | 15980     | 42                 | 96                            | 3                    | 7                        | 211                             | 43900                 | 934,0                    | 237,0             | 214-2,5-096-1400   |
| 1400 | 385             | 1464           | 15958     | 42                 | 179                           | 12                   | 14                       | 109                             | 6900                  | 481,0                    | 251,0             | 214-2,5-179-1400   |
| 1600 | 215             | 1664           | 20750     | 47                 | 59                            | 1                    | 4                        | 370                             | 283900                | 2140,0                   | 324,0             | 214-2,5-059-1600   |
| 1600 | 275             | 1664           | 20776     | 47                 | 95                            | 3                    | 6                        | 239                             | 64500                 | 1380,0                   | 329,0             | 214-2,5-095-1600   |
| 1600 | 395             | 1664           | 20750     | 47                 | 178                           | 10                   | 12                       | 124                             | 10200                 | 711,0                    | 344,0             | 214-2,5-178-1600   |
| 1800 | 225             | 1864           | 26142     | 52                 | 56                            | 1                    | 3                        | 445                             | 416400                | 3240,0                   | 396,0             | 214-2,5-056-1800   |
| 1800 | 285             | 1864           | 26199     | 52                 | 94                            | 2                    | 5                        | 268                             | 90600                 | 1950,0                   | 404,0             | 214-2,5-094-1800   |
| 1800 | 405             | 1864           | 26142     | 52                 | 170                           | 9                    | 10                       | 149                             | 15200                 | 1080,0                   | 422,0             | 214-2,5-170-1800   |
| 2000 | 225             | 2061           | 32204     | 52                 | 53                            | 0                    | 3                        | 552                             | 612700                | 4940,0                   | 441,0             | 214-2,5-053-2000   |
| 2000 | 285             | 2061           | 32204     | 52                 | 88                            | 2                    | 4                        | 331                             | 132200                | 2970,0                   | 447,0             | 214-2,5-088-2000   |
| 2000 | 405             | 2061           | 32204     | 52                 | 159                           | 7                    | 9                        | 184                             | 22500                 | 1650,0                   | 466,0             | 214-2,5-159-2000   |
| 2200 | 240             | 2260           | 38865     | 57                 | 65                            | 0                    | 3                        | 487                             | 633600                | 5260,0                   | 572,0             | 214-2,5-065-2200   |
| 2200 | 300             | 2260           | 38865     | 57                 | 109                           | 2                    | 5                        | 293                             | 143800                | 3160,0                   | 584,0             | 214-2,5-109-2200   |
| 2200 | 420             | 2260           | 38865     | 57                 | 197                           | 8                    | 10                       | 163                             | 25300                 | 1760,0                   | 609,0             | 214-2,5-197-2200   |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
Other dimensions and materials on request.



## Typ 214 Abmessungen

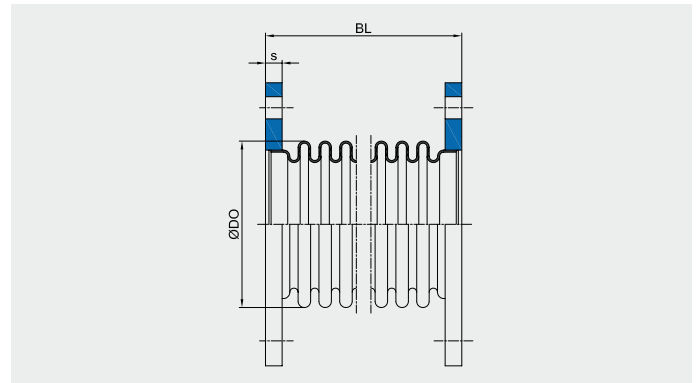
### Ausführung 1

## Type 214 Specifications

### Model 1

### Druckstufe 6 barg (PN 6)

### Design pressure 6 barg (PN 6)



| DN   | Länge<br>Length | Balg<br>Bellows |           | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                      |                          | Verstellkraft<br>Springrate |                       |                          | Gewicht<br>Weight | Artikel<br>Article |
|------|-----------------|-----------------|-----------|--------------------|-------------------------------|----------------------|--------------------------|-----------------------------|-----------------------|--------------------------|-------------------|--------------------|
|      |                 | BL<br>mm        | ØDO<br>mm |                    | axial<br>25N<br>mm            | lateral<br>2ΔN<br>mm | angular<br>2αN<br>°/deg. | axial<br>C5<br>N/mm         | lateral<br>CΔ<br>N/mm | angular<br>Cα<br>Nm/deg. |                   |                    |
| 50   | 145             | 69              | 28        | 16                 | 23                            | 14                   | 44                       | 94                          | 53                    | 0,8                      | 3,3               | 214-06-023-0050    |
| 50   | 245             | 69              | 28        | 16                 | 41                            | 49                   | 50                       | 84                          | 13                    | 0,7                      | 3,7               | 214-06-041-0050    |
| 65   | 135             | 87              | 46        | 16                 | 26                            | 11                   | 38                       | 83                          | 98                    | 1,1                      | 4,0               | 214-06-026-0065    |
| 65   | 205             | 87              | 46        | 16                 | 43                            | 32                   | 50                       | 82                          | 32                    | 1,1                      | 4,5               | 214-06-043-0065    |
| 80   | 130             | 114             | 79        | 18                 | 25                            | 6                    | 28                       | 83                          | 313                   | 1,9                      | 6,4               | 214-06-025-0080    |
| 80   | 170             | 114             | 79        | 18                 | 42                            | 17                   | 47                       | 50                          | 76                    | 1,1                      | 6,6               | 214-06-042-0080    |
| 80   | 235             | 114             | 77        | 18                 | 59                            | 37                   | 50                       | 78                          | 47                    | 1,7                      | 7,5               | 214-06-059-0080    |
| 100  | 135             | 145             | 131       | 18                 | 35                            | 6                    | 31                       | 51                          | 422                   | 1,9                      | 7,2               | 214-06-035-0100    |
| 100  | 175             | 144             | 129       | 18                 | 53                            | 15                   | 47                       | 58                          | 176                   | 2,1                      | 7,8               | 214-06-053-0100    |
| 100  | 260             | 145             | 127       | 18                 | 76                            | 42                   | 50                       | 92                          | 72                    | 3,3                      | 9,8               | 214-06-076-0100    |
| 125  | 140             | 171             | 188       | 20                 | 35                            | 5                    | 25                       | 60                          | 669                   | 3,1                      | 9,5               | 214-06-035-0125    |
| 125  | 190             | 171             | 187       | 20                 | 62                            | 17                   | 46                       | 54                          | 201                   | 2,8                      | 10,1              | 214-06-062-0125    |
| 125  | 290             | 170             | 182       | 20                 | 82                            | 43                   | 50                       | 104                         | 90                    | 5,3                      | 12,7              | 214-06-082-0125    |
| 150  | 155             | 204             | 271       | 20                 | 38                            | 5                    | 23                       | 66                          | 872                   | 5,0                      | 10,5              | 214-06-038-0150    |
| 150  | 235             | 204             | 267       | 20                 | 65                            | 20                   | 40                       | 107                         | 267                   | 8,0                      | 12,6              | 214-06-065-0150    |
| 150  | 340             | 204             | 262       | 20                 | 103                           | 53                   | 50                       | 126                         | 115                   | 9,2                      | 16,7              | 214-06-103-0150    |
| 200  | 165             | 257             | 442       | 22                 | 51                            | 6                    | 24                       | 52                          | 784                   | 6,3                      | 15,1              | 214-06-051-0200    |
| 200  | 250             | 259             | 441       | 22                 | 88                            | 23                   | 42                       | 80                          | 313                   | 9,8                      | 18,6              | 214-06-088-0200    |
| 200  | 305             | 259             | 435       | 22                 | 110                           | 38                   | 50                       | 116                         | 259                   | 14,0                     | 23,1              | 214-06-110-0200    |
| 250  | 170             | 309             | 663       | 24                 | 46                            | 5                    | 18                       | 77                          | 1590                  | 15,0                     | 19,8              | 214-06-046-0250    |
| 250  | 255             | 314             | 670       | 24                 | 86                            | 18                   | 33                       | 97                          | 554                   | 18,0                     | 23,8              | 214-06-086-0250    |
| 250  | 350             | 310             | 656       | 24                 | 111                           | 37                   | 44                       | 119                         | 266                   | 22,0                     | 28,6              | 214-06-111-0250    |
| 300  | 185             | 365             | 927       | 24                 | 58                            | 5                    | 19                       | 91                          | 2700                  | 24,0                     | 26,9              | 214-06-058-0300    |
| 300  | 220             | 364             | 924       | 24                 | 84                            | 12                   | 28                       | 66                          | 858                   | 17,0                     | 28,3              | 214-06-084-0300    |
| 300  | 280             | 370             | 933       | 24                 | 115                           | 24                   | 38                       | 98                          | 644                   | 26,0                     | 34,9              | 214-06-115-0300    |
| 350  | 175             | 396             | 1104      | 26                 | 55                            | 4                    | 16                       | 106                         | 4010                  | 33,0                     | 37,0              | 214-06-055-0350    |
| 350  | 220             | 398             | 1110      | 26                 | 89                            | 11                   | 27                       | 62                          | 1100                  | 19,0                     | 39,6              | 214-06-089-0350    |
| 350  | 320             | 400             | 1108      | 26                 | 123                           | 27                   | 37                       | 104                         | 561                   | 32,0                     | 45,9              | 214-06-123-0350    |
| 400  | 230             | 453             | 1451      | 28                 | 65                            | 7                    | 17                       | 104                         | 2160                  | 42,0                     | 44,7              | 214-06-065-0400    |
| 400  | 290             | 458             | 1462      | 28                 | 117                           | 19                   | 31                       | 82                          | 884                   | 33,0                     | 48,7              | 214-06-117-0400    |
| 400  | 440             | 455             | 1441      | 28                 | 147                           | 42                   | 39                       | 151                         | 463                   | 61,0                     | 64,9              | 214-06-147-0400    |
| 450  | 215             | 510             | 1836      | 30                 | 54                            | 4                    | 12                       | 179                         | 6340                  | 91,0                     | 56,2              | 214-06-054-0450    |
| 450  | 270             | 514             | 1851      | 30                 | 90                            | 11                   | 21                       | 97                          | 1680                  | 50,0                     | 57,6              | 214-06-090-0450    |
| 450  | 395             | 513             | 1830      | 30                 | 157                           | 34                   | 37                       | 130                         | 746                   | 66,0                     | 77,5              | 214-06-157-0450    |
| 500  | 235             | 568             | 2273      | 30                 | 61                            | 5                    | 13                       | 174                         | 6850                  | 110,0                    | 60,7              | 214-06-061-0500    |
| 500  | 335             | 567             | 2269      | 30                 | 108                           | 16                   | 23                       | 102                         | 1200                  | 64,0                     | 63,8              | 214-06-108-0500    |
| 500  | 435             | 569             | 2259      | 30                 | 171                           | 36                   | 36                       | 139                         | 814                   | 87,0                     | 84,4              | 214-06-171-0500    |
| 600  | 285             | 666             | 3191      | 32                 | 63                            | 5                    | 11                       | 242                         | 7780                  | 214,0                    | 79,0              | 214-06-063-0600    |
| 600  | 350             | 681             | 3256      | 32                 | 131                           | 16                   | 23                       | 133                         | 2470                  | 120,0                    | 89,3              | 214-06-131-0600    |
| 600  | 455             | 679             | 3235      | 32                 | 189                           | 34                   | 33                       | 136                         | 1170                  | 123,0                    | 99,9              | 214-06-189-0600    |
| 700  | 270             | 762             | 4248      | 24                 | 57                            | 4                    | 8                        | 312                         | 12600                 | 368,0                    | 71,1              | 214-06-057-0700    |
| 700  | 335             | 776             | 4316      | 24                 | 121                           | 12                   | 18                       | 175                         | 4120                  | 209,0                    | 85,3              | 214-06-121-0700    |
| 700  | 475             | 775             | 4298      | 24                 | 195                           | 33                   | 30                       | 156                         | 1390                  | 186,0                    | 107,0             | 214-06-195-0700    |
| 800  | 265             | 878             | 5586      | 37                 | 68                            | 3                    | 9                        | 339                         | 32800                 | 526,0                    | 134,0             | 214-06-068-0800    |
| 800  | 360             | 878             | 5586      | 37                 | 119                           | 11                   | 16                       | 194                         | 5990                  | 301,0                    | 142,0             | 214-06-119-0800    |
| 800  | 465             | 885             | 5618      | 37                 | 208                           | 28                   | 28                       | 137                         | 2110                  | 214,0                    | 169,0             | 214-06-208-0800    |
| 900  | 265             | 979             | 7011      | 37                 | 65                            | 3                    | 7                        | 389                         | 46300                 | 758,0                    | 149,0             | 214-06-065-0900    |
| 900  | 360             | 980             | 7019      | 37                 | 116                           | 9                    | 14                       | 214                         | 8210                  | 416,0                    | 157,0             | 214-06-116-0900    |
| 900  | 465             | 986             | 7047      | 37                 | 199                           | 24                   | 24                       | 157                         | 2960                  | 307,0                    | 188,0             | 214-06-199-0900    |
| 1000 | 280             | 1080            | 8599      | 42                 | 62                            | 2                    | 6                        | 443                         | 58700                 | 1060,0                   | 185,0             | 214-06-062-1000    |
| 1000 | 370             | 1080            | 8599      | 42                 | 109                           | 8                    | 11                       | 253                         | 11700                 | 605,0                    | 194,0             | 214-06-109-1000    |
| 1000 | 490             | 1092            | 8679      | 42                 | 211                           | 23                   | 23                       | 148                         | 3650                  | 355,0                    | 224,0             | 214-06-211-1000    |
| 1200 | 285             | 1248            | 11652     | 47                 | 66                            | 3                    | 6                        | 528                         | 61100                 | 1710,0                   | 281,0             | 214-06-066-1200    |
| 1200 | 380             | 1251            | 11681     | 47                 | 114                           | 8                    | 10                       | 288                         | 13000                 | 934,0                    | 293,0             | 214-06-114-1200    |
| 1200 | 480             | 1263            | 11781     | 47                 | 214                           | 22                   | 20                       | 172                         | 4490                  | 560,0                    | 329,0             | 214-06-214-1200    |

## Typ 214 Abmessungen

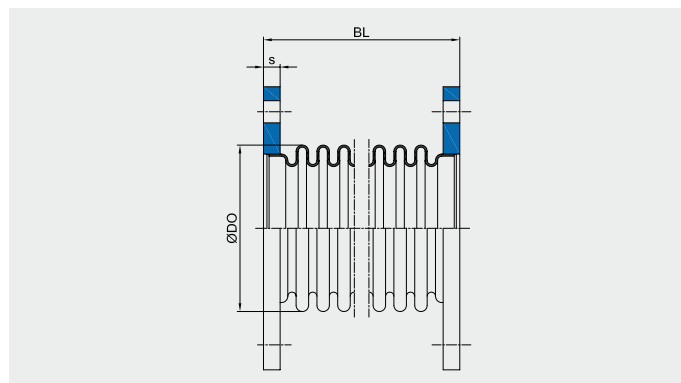
### Ausführung 1

## Type 214 Specifications

### Model 1

### Druckstufe 10 barg (PN 10)

### Design pressure 10 barg (PN 10)



| DN  | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                    |                      | Verstellkraftrate<br>Springrate |                     |                       | Gewicht<br>Weight        | Artikel<br>Article |
|-----|-----------------|----------------|-----------|--------------------|-------------------------------|--------------------|----------------------|---------------------------------|---------------------|-----------------------|--------------------------|--------------------|
|     |                 | BL<br>mm       | ØDO<br>mm |                    | s<br>mm                       | axial<br>25N<br>mm | lateral<br>2λN<br>mm | angular<br>2αN<br>°/deg.        | axial<br>Cδ<br>N/mm | lateral<br>Cλ<br>N/mm | angular<br>Cα<br>Nm/deg. |                    |
| 25  | 120             | 40             | 9         | 16                 | 12                            | 9                  | 40                   | 111                             | 33                  | 0,3                   | 2,3                      | 214-10-012-0025    |
| 32  | 110             | 50             | 14        | 18                 | 15                            | 8                  | 41                   | 86                              | 55                  | 0,4                   | 3,8                      | 214-10-015-0032    |
| 40  | 160             | 55             | 17        | 18                 | 19                            | 16                 | 46                   | 118                             | 32                  | 0,6                   | 4,4                      | 214-10-019-0040    |
| 50  | 135             | 69             | 28        | 20                 | 18                            | 9                  | 34                   | 115                             | 96                  | 0,9                   | 5,8                      | 214-10-018-0050    |
| 50  | 205             | 69             | 28        | 20                 | 31                            | 28                 | 50                   | 112                             | 28                  | 0,9                   | 6,2                      | 214-10-031-0050    |
| 65  | 145             | 87             | 46        | 20                 | 25                            | 11                 | 37                   | 83                              | 94                  | 1,1                   | 6,6                      | 214-10-025-0065    |
| 65  | 200             | 86             | 45        | 20                 | 36                            | 25                 | 50                   | 103                             | 46                  | 1,3                   | 7,0                      | 214-10-036-0065    |
| 80  | 130             | 114            | 79        | 20                 | 23                            | 5                  | 26                   | 83                              | 345                 | 1,9                   | 7,6                      | 214-10-023-0080    |
| 80  | 160             | 114            | 78        | 20                 | 33                            | 11                 | 37                   | 97                              | 196                 | 2,2                   | 8,0                      | 214-10-033-0080    |
| 80  | 240             | 113            | 77        | 20                 | 46                            | 29                 | 50                   | 129                             | 73                  | 2,8                   | 8,8                      | 214-10-046-0080    |
| 100 | 135             | 144            | 130       | 22                 | 30                            | 5                  | 26                   | 56                              | 392                 | 2,1                   | 9,5                      | 214-10-030-0100    |
| 100 | 175             | 141            | 126       | 22                 | 43                            | 13                 | 39                   | 78                              | 211                 | 2,8                   | 10,1                     | 214-10-043-0100    |
| 100 | 270             | 140            | 122       | 22                 | 57                            | 32                 | 50                   | 154                             | 107                 | 5,2                   | 11,6                     | 214-10-057-0100    |
| 125 | 135             | 170            | 187       | 22                 | 30                            | 4                  | 22                   | 66                              | 656                 | 3,4                   | 11,7                     | 214-10-030-0125    |
| 125 | 175             | 168            | 183       | 22                 | 45                            | 11                 | 33                   | 81                              | 324                 | 4,1                   | 12,1                     | 214-10-045-0125    |
| 125 | 255             | 169            | 181       | 22                 | 63                            | 27                 | 47                   | 139                             | 173                 | 7,0                   | 14,2                     | 214-10-063-0125    |
| 150 | 145             | 203            | 268       | 24                 | 28                            | 3                  | 17                   | 139                             | 2300                | 11,0                  | 15,7                     | 214-10-028-0150    |
| 150 | 225             | 206            | 270       | 24                 | 61                            | 17                 | 37                   | 102                             | 330                 | 7,6                   | 17,4                     | 214-10-061-0150    |
| 150 | 325             | 198            | 256       | 24                 | 71                            | 33                 | 45                   | 180                             | 179                 | 13,0                  | 19,2                     | 214-10-071-0150    |
| 200 | 160             | 257            | 437       | 24                 | 35                            | 4                  | 17                   | 204                             | 3610                | 25,0                  | 20,9                     | 214-10-035-0200    |
| 200 | 210             | 262            | 446       | 24                 | 67                            | 13                 | 32                   | 90                              | 626                 | 12,0                  | 22,5                     | 214-10-067-0200    |
| 200 | 275             | 259            | 435       | 24                 | 91                            | 26                 | 44                   | 137                             | 415                 | 17,0                  | 26,5                     | 214-10-091-0200    |
| 250 | 165             | 313            | 667       | 26                 | 35                            | 3                  | 13                   | 228                             | 6200                | 43,0                  | 26,6                     | 214-10-035-0250    |
| 250 | 210             | 317            | 677       | 26                 | 65                            | 10                 | 25                   | 108                             | 1260                | 21,0                  | 28,6                     | 214-10-065-0250    |
| 250 | 300             | 313            | 659       | 26                 | 95                            | 24                 | 37                   | 159                             | 590                 | 30,0                  | 35,3                     | 214-10-095-0250    |
| 300 | 165             | 368            | 932       | 26                 | 39                            | 3                  | 12                   | 201                             | 7730                | 52,0                  | 32,0                     | 214-10-039-0300    |
| 300 | 250             | 370            | 933       | 26                 | 91                            | 16                 | 30                   | 118                             | 1110                | 31,0                  | 36,7                     | 214-10-091-0300    |
| 300 | 325             | 373            | 930       | 26                 | 115                           | 28                 | 38                   | 177                             | 770                 | 46,0                  | 47,2                     | 214-10-115-0300    |
| 350 | 175             | 399            | 1110      | 30                 | 37                            | 2                  | 11                   | 233                             | 9950                | 72,0                  | 49,0                     | 214-10-037-0350    |
| 350 | 225             | 407            | 1129      | 30                 | 82                            | 10                 | 24                   | 119                             | 2230                | 38,0                  | 52,4                     | 214-10-082-0350    |
| 350 | 305             | 400            | 1103      | 30                 | 106                           | 21                 | 32                   | 151                             | 990                 | 47,0                  | 59,0                     | 214-10-106-0350    |
| 400 | 190             | 459            | 1459      | 32                 | 47                            | 3                  | 12                   | 256                             | 14800               | 104,0                 | 63,0                     | 214-10-047-0400    |
| 400 | 305             | 459            | 1461      | 32                 | 93                            | 15                 | 24                   | 144                             | 1350                | 59,0                  | 68,1                     | 214-10-093-0400    |
| 400 | 375             | 458            | 1443      | 32                 | 123                           | 27                 | 32                   | 211                             | 1090                | 85,0                  | 80,1                     | 214-10-123-0400    |
| 450 | 235             | 508            | 1818      | 36                 | 66                            | 6                  | 15                   | 211                             | 7140                | 107,0                 | 78,4                     | 214-10-066-0450    |
| 450 | 305             | 515            | 1838      | 36                 | 101                           | 14                 | 23                   | 182                             | 2510                | 93,0                  | 86,8                     | 214-10-101-0450    |
| 450 | 440             | 515            | 1822      | 36                 | 143                           | 34                 | 34                   | 244                             | 1080                | 124,0                 | 110,0                    | 214-10-143-0450    |
| 500 | 210             | 562            | 2236      | 38                 | 39                            | 2                  | 8                    | 435                             | 41700               | 270,0                 | 90,5                     | 214-10-039-0500    |
| 500 | 295             | 568            | 2254      | 38                 | 96                            | 10                 | 20                   | 202                             | 4820                | 126,0                 | 99,3                     | 214-10-096-0500    |
| 500 | 410             | 569            | 2249      | 38                 | 141                           | 26                 | 30                   | 210                             | 1620                | 131,0                 | 112,0                    | 214-10-141-0500    |
| 600 | 240             | 660            | 3147      | 37                 | 42                            | 2                  | 7                    | 643                             | 51200               | 562,0                 | 105,0                    | 214-10-042-0600    |
| 600 | 340             | 669            | 3183      | 37                 | 106                           | 11                 | 19                   | 253                             | 5480                | 224,0                 | 115,0                    | 214-10-106-0600    |
| 600 | 525             | 678            | 3208      | 37                 | 175                           | 37                 | 31                   | 266                             | 1490                | 237,0                 | 153,0                    | 214-10-175-0600    |
| 700 | 285             | 772            | 4280      | 42                 | 62                            | 3                  | 9                    | 488                             | 30900               | 580,0                 | 160,0                    | 214-10-062-0700    |
| 700 | 380             | 772            | 4280      | 42                 | 109                           | 12                 | 16                   | 279                             | 5870                | 331,0                 | 169,0                    | 214-10-109-0700    |
| 700 | 495             | 784            | 4327      | 42                 | 183                           | 30                 | 28                   | 246                             | 2450                | 296,0                 | 205,0                    | 214-10-183-0700    |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /

Other dimensions and materials on request.

## Typ 214 Abmessungen

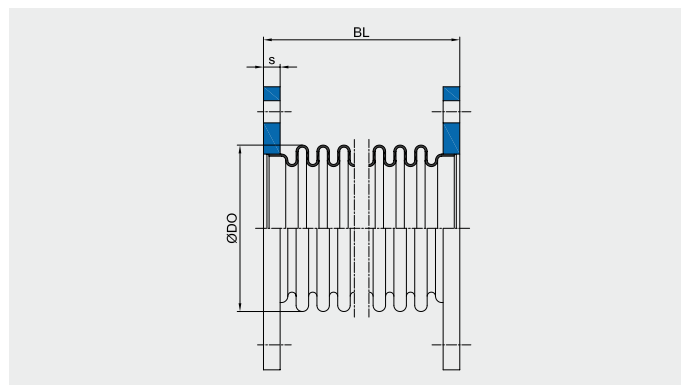
### Ausführung 1

## Type 214 Specifications

### Model 1

### Druckstufe 16 barg (PN 16)

### Design pressure 16 barg (PN 16)



| DN  | Länge<br>Length | Balg<br>Bellow |           | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                      |                          | Verstellkraft rate<br>Spring rate |                       |                          | Gewicht<br>Weight | Artikel<br>Article |
|-----|-----------------|----------------|-----------|--------------------|-------------------------------|----------------------|--------------------------|-----------------------------------|-----------------------|--------------------------|-------------------|--------------------|
|     |                 | BL<br>mm       | ØDO<br>mm |                    | axial<br>25N<br>mm            | lateral<br>2ΔN<br>mm | angular<br>2αN<br>°/deg. | axial<br>C5<br>N/mm               | lateral<br>CΔ<br>N/mm | angular<br>Cα<br>Nm/deg. |                   |                    |
| 25  | 120             | 40             | 9         | 16                 | 12                            | 9                    | 40                       | 111                               | 33                    | 0,3                      | 2,3               | 214-16-012-0025    |
| 32  | 110             | 50             | 14        | 18                 | 15                            | 8                    | 41                       | 86                                | 55                    | 0,4                      | 3,8               | 214-16-015-0032    |
| 40  | 170             | 55             | 17        | 18                 | 18                            | 16                   | 44                       | 195                               | 45                    | 1,0                      | 4,5               | 214-16-018-0040    |
| 50  | 135             | 69             | 28        | 20                 | 18                            | 9                    | 34                       | 115                               | 96                    | 0,9                      | 5,8               | 214-16-018-0050    |
| 50  | 215             | 68             | 27        | 20                 | 28                            | 27                   | 50                       | 194                               | 41                    | 1,5                      | 6,4               | 214-16-028-0050    |
| 65  | 135             | 86             | 45        | 20                 | 20                            | 8                    | 30                       | 109                               | 150                   | 1,4                      | 6,7               | 214-16-020-0065    |
| 65  | 210             | 87             | 45        | 20                 | 37                            | 27                   | 50                       | 178                               | 70                    | 2,3                      | 7,4               | 214-16-037-0065    |
| 80  | 130             | 113            | 79        | 20                 | 21                            | 5                    | 24                       | 93                                | 376                   | 2,1                      | 7,7               | 214-16-021-0080    |
| 80  | 210             | 112            | 75        | 20                 | 40                            | 21                   | 47                       | 170                               | 140                   | 3,6                      | 8,8               | 214-16-040-0080    |
| 100 | 140             | 143            | 128       | 22                 | 29                            | 5                    | 26                       | 95                                | 569                   | 3,4                      | 9,6               | 214-16-029-0100    |
| 100 | 190             | 141            | 123       | 22                 | 43                            | 14                   | 39                       | 139                               | 285                   | 4,8                      | 10,6              | 214-16-043-0100    |
| 125 | 125             | 170            | 186       | 22                 | 19                            | 2                    | 14                       | 175                               | 2390                  | 9,0                      | 11,7              | 214-16-019-0125    |
| 125 | 165             | 173            | 187       | 22                 | 40                            | 9                    | 29                       | 124                               | 625                   | 6,5                      | 12,6              | 214-16-040-0125    |
| 125 | 200             | 172            | 184       | 22                 | 50                            | 15                   | 37                       | 146                               | 397                   | 7,5                      | 14,2              | 214-16-050-0125    |
| 150 | 145             | 205            | 269       | 24                 | 24                            | 3                    | 14                       | 247                               | 3970                  | 19,0                     | 15,8              | 214-16-024-0150    |
| 150 | 180             | 208            | 273       | 24                 | 40                            | 7                    | 24                       | 131                               | 909                   | 9,9                      | 16,4              | 214-16-040-0150    |
| 150 | 245             | 206            | 265       | 24                 | 63                            | 19                   | 39                       | 178                               | 444                   | 14,0                     | 19,4              | 214-16-063-0150    |
| 200 | 155             | 261            | 442       | 26                 | 32                            | 3                    | 15                       | 258                               | 6260                  | 32,0                     | 21,7              | 214-16-032-0200    |
| 200 | 220             | 259            | 438       | 26                 | 60                            | 12                   | 29                       | 149                               | 927                   | 18,0                     | 23,4              | 214-16-060-0200    |
| 200 | 315             | 257            | 427       | 26                 | 75                            | 25                   | 36                       | 266                               | 521                   | 32,0                     | 29,7              | 214-16-075-0200    |
| 250 | 200             | 309            | 658       | 29                 | 34                            | 4                    | 13                       | 257                               | 4080                  | 47,0                     | 29,7              | 214-16-034-0250    |
| 250 | 235             | 314            | 666       | 29                 | 59                            | 9                    | 23                       | 177                               | 1710                  | 33,0                     | 33,1              | 214-16-059-0250    |
| 250 | 335             | 312            | 652       | 29                 | 80                            | 24                   | 31                       | 292                               | 782                   | 53,0                     | 41,0              | 214-16-080-0250    |
| 300 | 175             | 365            | 919       | 32                 | 28                            | 1                    | 9                        | 409                               | 21600                 | 105,0                    | 40,6              | 214-16-028-0300    |
| 300 | 230             | 370            | 928       | 32                 | 63                            | 8                    | 21                       | 210                               | 3640                  | 54,0                     | 44,9              | 214-16-063-0300    |
| 300 | 320             | 369            | 920       | 32                 | 89                            | 20                   | 29                       | 244                               | 1150                  | 63,0                     | 55,0              | 214-16-089-0300    |
| 350 | 190             | 396            | 1096      | 35                 | 34                            | 2                    | 10                       | 380                               | 14500                 | 116,0                    | 59,9              | 214-16-034-0350    |
| 350 | 230             | 401            | 1106      | 35                 | 60                            | 7                    | 18                       | 242                               | 4570                  | 75,0                     | 63,8              | 214-16-060-0350    |
| 350 | 325             | 402            | 1103      | 35                 | 90                            | 19                   | 27                       | 249                               | 1440                  | 77,0                     | 74,9              | 214-16-090-0350    |
| 400 | 225             | 458            | 1451      | 38                 | 45                            | 4                    | 12                       | 405                               | 13600                 | 163,0                    | 80,2              | 214-16-045-0400    |
| 400 | 290             | 457            | 1447      | 38                 | 71                            | 10                   | 18                       | 268                               | 3310                  | 108,0                    | 82,7              | 214-16-071-0400    |
| 400 | 320             | 462            | 1457      | 38                 | 97                            | 16                   | 25                       | 227                               | 2170                  | 92,0                     | 89,5              | 214-16-097-0400    |
| 450 | 235             | 507            | 1808      | 42                 | 42                            | 3                    | 10                       | 501                               | 19500                 | 252,0                    | 102,0             | 214-16-042-0450    |
| 450 | 300             | 507            | 1808      | 42                 | 68                            | 8                    | 16                       | 314                               | 4670                  | 158,0                    | 102,0             | 214-16-068-0450    |
| 450 | 330             | 513            | 1822      | 42                 | 95                            | 14                   | 22                       | 251                               | 2920                  | 127,0                    | 109,0             | 214-16-095-0450    |
| 500 | 285             | 559            | 2217      | 46                 | 49                            | 4                    | 10                       | 559                               | 15800                 | 344,0                    | 138,0             | 214-16-049-0500    |
| 500 | 340             | 559            | 2217      | 46                 | 68                            | 8                    | 14                       | 400                               | 5740                  | 246,0                    | 142,0             | 214-16-068-0500    |
| 500 | 375             | 568            | 2245      | 46                 | 103                           | 15                   | 22                       | 276                               | 3070                  | 172,0                    | 146,0             | 214-16-103-0500    |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /  
Other dimensions and materials on request.



## Typ 214 Abmessungen

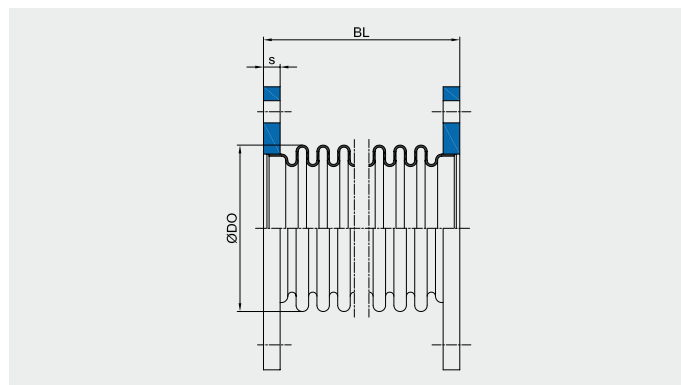
### Ausführung 1

## Type 214 Specifications

### Model 1

### Druckstufe 25 barg (PN 25)

### Design pressure 25 barg (PN 25)



| DN  | Länge<br>Length | Balg<br>Bellows |                        | Flansch<br>Flanges | Bewegungsaufnahme<br>Movement |                      |                          | Verstellkraft<br>Springrate |                       |                          | Gewicht<br>Weight | Artikel<br>Article |
|-----|-----------------|-----------------|------------------------|--------------------|-------------------------------|----------------------|--------------------------|-----------------------------|-----------------------|--------------------------|-------------------|--------------------|
|     |                 | ØDO<br>mm       | WF*<br>cm <sup>2</sup> |                    | axial<br>2δN<br>mm            | lateral<br>2λN<br>mm | angular<br>2αN<br>°/deg. | axial<br>Cδ<br>N/mm         | lateral<br>Cλ<br>N/mm | angular<br>Cα<br>Nm/deg. |                   |                    |
| 50  | 125             | 69              | 28                     | 20                 | 15                            | 6                    | 28                       | 130                         | 135                   | 1,0                      | 5,2               | 214-25-015-0050    |
| 50  | 180             | 68              | 27                     | 20                 | 22                            | 17                   | 43                       | 242                         | 84                    | 1,9                      | 5,5               | 214-25-022-0050    |
| 65  | 135             | 85              | 44                     | 22                 | 16                            | 6                    | 24                       | 147                         | 217                   | 1,8                      | 6,7               | 214-25-016-0065    |
| 65  | 230             | 84              | 42                     | 22                 | 29                            | 24                   | 45                       | 295                         | 89                    | 3,5                      | 7,7               | 214-25-029-0065    |
| 80  | 145             | 113             | 78                     | 24                 | 20                            | 5                    | 23                       | 146                         | 481                   | 3,2                      | 8,7               | 214-25-020-0080    |
| 80  | 195             | 112             | 75                     | 24                 | 31                            | 13                   | 36                       | 208                         | 238                   | 4,4                      | 9,6               | 214-25-031-0080    |
| 100 | 140             | 142             | 126                    | 26                 | 23                            | 4                    | 20                       | 173                         | 1400                  | 6,0                      | 12,5              | 214-25-023-0100    |
| 100 | 195             | 138             | 120                    | 26                 | 36                            | 12                   | 33                       | 198                         | 401                   | 6,6                      | 12,9              | 214-25-036-0100    |
| 125 | 170             | 170             | 184                    | 28                 | 28                            | 5                    | 21                       | 187                         | 1030                  | 9,5                      | 17,3              | 214-25-028-0125    |
| 125 | 210             | 171             | 181                    | 28                 | 43                            | 12                   | 32                       | 226                         | 612                   | 12,0                     | 19,4              | 214-25-043-0125    |
| 150 | 175             | 206             | 268                    | 30                 | 25                            | 3                    | 15                       | 310                         | 4190                  | 24,0                     | 21,4              | 214-25-025-0150    |
| 150 | 240             | 203             | 261                    | 30                 | 47                            | 13                   | 29                       | 257                         | 768                   | 19,0                     | 23,3              | 214-25-047-0150    |
| 200 | 170             | 257             | 431                    | 32                 | 27                            | 2                    | 13                       | 436                         | 9430                  | 53,0                     | 31,3              | 214-25-027-0200    |
| 200 | 225             | 259             | 435                    | 32                 | 51                            | 9                    | 24                       | 215                         | 1490                  | 26,0                     | 32,2              | 214-25-051-0200    |
| 200 | 290             | 257             | 427                    | 32                 | 60                            | 17                   | 29                       | 319                         | 892                   | 38,0                     | 36,9              | 214-25-060-0200    |
| 250 | 180             | 309             | 650                    | 35                 | 24                            | 2                    | 9                        | 645                         | 18800                 | 117,0                    | 42,7              | 214-25-024-0250    |
| 250 | 230             | 311             | 655                    | 35                 | 46                            | 7                    | 18                       | 316                         | 3230                  | 58,0                     | 46,6              | 214-25-046-0250    |
| 250 | 305             | 314             | 657                    | 35                 | 63                            | 14                   | 24                       | 329                         | 1450                  | 60,0                     | 50,7              | 214-25-063-0250    |
| 300 | 200             | 360             | 901                    | 38                 | 30                            | 2                    | 10                       | 590                         | 16400                 | 148,0                    | 57,9              | 214-25-030-0300    |
| 300 | 255             | 360             | 901                    | 38                 | 48                            | 7                    | 16                       | 369                         | 3850                  | 93,0                     | 59,9              | 214-25-048-0300    |
| 300 | 280             | 370             | 922                    | 38                 | 65                            | 11                   | 21                       | 305                         | 2500                  | 79,0                     | 64,9              | 214-25-065-0300    |
| 350 | 210             | 391             | 1076                   | 42                 | 28                            | 2                    | 8                        | 691                         | 21700                 | 207,0                    | 87,9              | 214-25-028-0350    |
| 350 | 265             | 391             | 1076                   | 42                 | 45                            | 6                    | 13                       | 432                         | 5120                  | 129,0                    | 87,9              | 214-25-045-0350    |
| 350 | 290             | 401             | 1100                   | 42                 | 62                            | 9                    | 18                       | 353                         | 3320                  | 108,0                    | 92,8              | 214-25-062-0350    |
| 400 | 235             | 450             | 1416                   | 48                 | 28                            | 2                    | 7                        | 1020                        | 39700                 | 401,0                    | 120,0             | 214-25-028-0400    |
| 400 | 275             | 452             | 1423                   | 48                 | 46                            | 5                    | 12                       | 599                         | 11500                 | 237,0                    | 123,0             | 214-25-046-0400    |
| 400 | 375             | 459             | 1441                   | 48                 | 82                            | 15                   | 21                       | 399                         | 2540                  | 160,0                    | 140,0             | 214-25-082-0400    |

\*WF = wirksame Fläche / effective area

Weitere Abmessungen und Werkstoffe auf Anfrage. /

Other dimensions and materials on request.

