

**Pipe joint assemblies and fittings for  
high-density polyethylene (PE-HD) pressure pipes**  
Adaptors for fusion jointing, flanges and sealing elements  
Dimensions

**DIN**  
**16 963**  
Part 4

Rohrverbindungen und Rohrleitungsteile für Druckrohrleitungen aus Polyethylen hoher Dichte (PE-HD);  
Bunde für Heizelement-Stumpfschweißung, Flansche, Dichtungen; Maße

*In keeping with current practice in standards published by the International Organization for Standardization (ISO),  
a comma has been used throughout as the decimal marker.*

Dimensions in mm

## 1 Field of application

This standard specifies dimensions of adaptors for fusion jointing using heated tools, of flanges and sealing elements used to interconnect high-density polyethylene (PE-HD) pressure pipes as specified in DIN 8074 and to connect such pipes to pipes and fittings made from materials other than PE-HD. The adaptors and flanged joints shall comply with the requirements specified in DIN 16 963 Part 5 (at present at the stage of draft).

For technical reasons, adaptors shall only be welded to pipes conforming to DIN 8074 or to pipe components of the same pipe series, the use of other components being permitted if their wall thickness in the weld area is equal to that of the pipes.

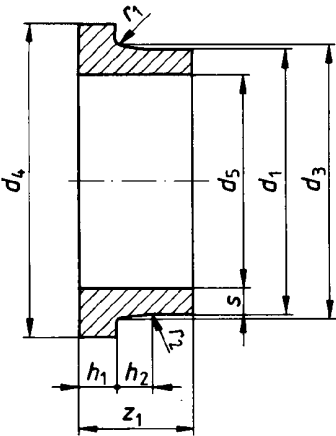
## 2 Dimensions, designation

Adaptors, flanges and sealing elements are not expected to conform to the designs illustrated here; compliance is only required in the case of the dimensions specified.

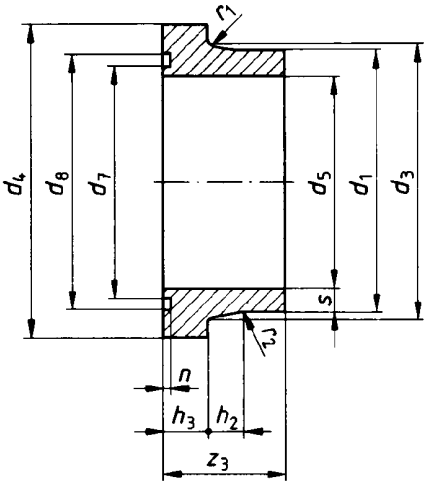
For dimensions without tolerance indication, the general tolerances given in DIN 7168 Part 1 or DIN 16 901 shall apply, at the manufacturer's discretion.

Continued on pages 2 to 8

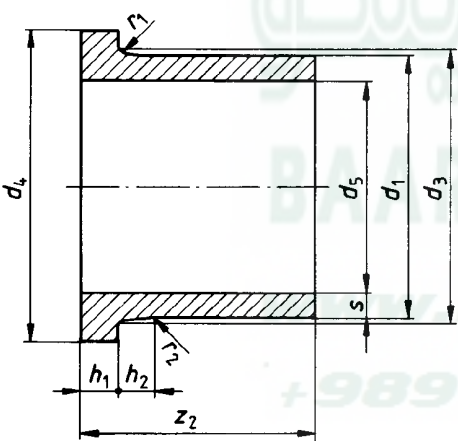
**Short adaptor**  
(item No.1)



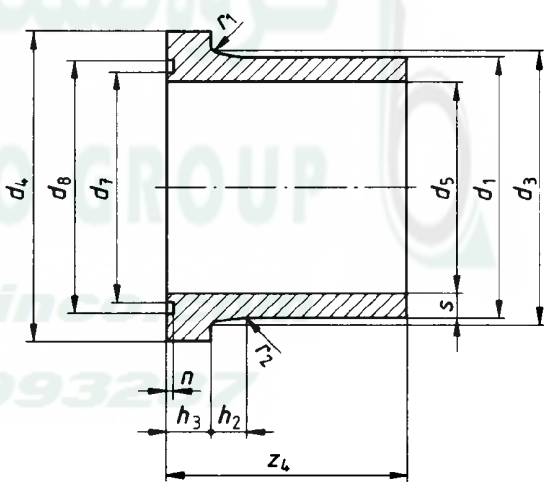
**Short adaptor**  
(item No.23)



**Long adaptor**  
(item No.3)



**Long adaptor**  
(item No.24)



Example of a series 5 PE-HD adaptor (item No. 3) designed for a pipe outside diameter of 200 mm:  
Adaptor DIN 16963 – 3 – 200 – 5 – PE-HD

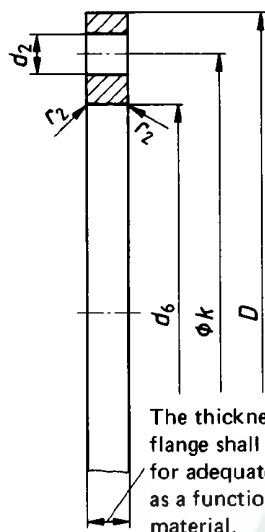
Table 1. **Adaptors** (item Nos. 1, 3, 23 and 24)

| Pipe<br>out-<br>side<br>diam-<br>eter, $d_1$ | $d_3$ | $d_4$ | $d_5^{1)}$<br>Pipe series |                     |                     |                     |      |           |       |           | $d_7$ | $d_8$ | $n$ | $h_1$<br>Pipe series |      |      |      | $h_2$ | $h_3$<br>Pipe series |    |    |    | $r_1$ | $r_2$ | $z_1$             | $z_2$ | $z_3$ | $z_4$ |    |
|----------------------------------------------|-------|-------|---------------------------|---------------------|---------------------|---------------------|------|-----------|-------|-----------|-------|-------|-----|----------------------|------|------|------|-------|----------------------|----|----|----|-------|-------|-------------------|-------|-------|-------|----|
|                                              |       |       | 2                         |                     | 3                   |                     | 4    |           | 5     |           |       |       |     | Pipe series          |      |      |      |       | Pipe series          |    |    |    |       |       |                   |       |       |       |    |
|                                              |       |       | PN 3,2                    |                     | PN 4                |                     | PN 6 |           | PN 10 |           |       |       |     | 2                    | 3    | 4    | 5    |       | 2                    | 3  | 4  | 5  |       |       |                   |       |       |       |    |
|                                              |       |       | Limit<br>deviations       | Limit<br>deviations | Limit<br>deviations | Limit<br>deviations | 2    | 3         | 4     | 5         |       |       |     | min.                 | min. | min. | min. |       | min.                 |    |    |    |       |       |                   |       |       |       |    |
| 20                                           | 27    | 45    | —                         | —                   | —                   | —                   | 16   | +0,4<br>— | 15    | +1,2<br>— | 20,9  | 29,7  | 2,8 | —                    | —    | —    | 7    | 13    | —                    | —  | —  | 10 | 3     | 20    | 50                | 85    | 53    | 88    |    |
| 25                                           | 33    | 58    | —                         | —                   | —                   | —                   | 21   | +0,4<br>— | 19    | +1,4<br>— | 25,7  | 34,5  |     | —                    | —    | 9    | 9    | 13    | —                    | —  | 12 | 12 | 3     | 20    | 50                | 85    | 53    | 88    |    |
| 32                                           | 40    | 68    | —                         | —                   | —                   | +0,4<br>—           | 27   | +1,2<br>— | 25    | +1<br>—   | 33,6  | 42,4  |     | —                    | —    | 10   | 10   | 13    | —                    | —  | 13 | 13 | 3     | 20    | 50                | 85    | 53    | 88    |    |
| 40                                           | 50    | 78    | —                         | —                   | —                   | +0,4<br>—           | 36   | +1,4<br>— | 31    | +1,6<br>— | 40,1  | 53,7  | 4,3 | —                    | 11   | 11   | 11   | 15    | —                    | 16 | 16 | 16 | 3     | 20    | 50                | 85    | 55    | 90    |    |
| 50                                           | 61    | 88    | 46                        | +0,4<br>—           | —                   | +1<br>—             | 43   | +1,2<br>— | 39    | +1,8<br>— | 49,6  | 63,2  |     | —                    | —    | 12   | 12   | 12    | 15                   | —  | 17 | 17 | 17    | 3     | 20                | 50    | 85    | 55    | 90 |
| 63                                           | 75    | 102   | 58                        | +1<br>—             | —                   | +1<br>—             | 55   | +0,8<br>— | 50    | +1,4<br>— | 65,3  | 78,9  |     | 14                   | 14   | 14   | 14   | 20    | 19                   | 19 | 19 | 19 | 4     | 20    | 50                | 85    | 55    | 90    |    |
| 75                                           | 89    | 122   | 69                        | +1,2<br>—           | —                   | +1,2<br>—           | 65   | +1,4<br>— | 59    | +2,2<br>— | 78,0  | 91,6  | 4,3 | 16                   | 16   | 16   | 16   | 20    | 21                   | 21 | 21 | 21 | 4     | 20    | 50                | 125   | 55    | 130   |    |
| 90                                           | 105   | 138   | 83                        | +1,4<br>—           | —                   | +1<br>—             | 78   | +1,8<br>— | 71    | +2,6<br>— | 96,9  | 110,5 | 4,3 | 17                   | 17   | 17   | 17   | 20    | 22                   | 22 | 22 | 22 | 4     | 20    | 80                | 140   | 85    | 145   |    |
| 110                                          | 125   | 158   | 102                       | +1<br>—             | —                   | +1,4<br>—           | 96   | +1,4<br>— | 88    | +2<br>—   | 114,8 | 132,8 | 5,6 | 18                   | 18   | 18   | 18   | 25    | 24                   | 24 | 24 | 24 | 4     | 20    | 80                | 160   | 86    | 166   |    |
| 125                                          | 132   | 158   | 116                       | +1,2<br>—           | —                   | +1,2<br>—           | 109  | +1,8<br>— | 99    | +3,2<br>— | 114,8 | 132,8 | 5,6 | 18                   | 18   | 18   | 25   | 20    | 24                   | 24 | 24 | 31 | 4     | 20    | 80                | 170   | 86    | 176   |    |
| 140                                          | 155   | 188   | 130                       | +1,2<br>—           | —                   | +1,6<br>—           | 122  | +2<br>—   | 111   | +3,4<br>— | 146,2 | 160,2 |     | 18                   | 18   | 18   | 25   | 28    | 24                   | 24 | 24 | 31 | 4     | 20    | 80                | 200   | 86    | 206   |    |
| 160                                          | 175   | 212   | 149                       | +1<br>—             | —                   | +1,6<br>—           | 139  | +2,8<br>— | 127   | +3,8<br>— | 171,6 | 189,6 |     | 18                   | 18   | 18   | 25   | 28    | 24                   | 24 | 24 | 31 | 4     | 20    | 80                | 200   | 86    | 206   |    |
| 180                                          | 180   | 212   | 167                       | +1,8<br>—           | —                   | +2<br>—             | 157  | +2,6<br>— | 143   | +4,8<br>— | 160,2 | 178,4 | 5,6 | 18                   | 18   | 20   | 30   | 30    | 24                   | 24 | 26 | 36 | 4     | 20    | 80                | 200   | 86    | 206   |    |
| 200                                          | 232   | 268   | 186                       | +1,6<br>—           | —                   | +1,6<br>—           | 174  | +3,2<br>— | 159   | +4,6<br>— | 192   | 210,2 |     | 18                   | 18   | 24   | 32   | 40    | 24                   | 24 | 30 | 38 | 4     | 20    | 100               | 200   | 106   | 206   |    |
| 225                                          | 235   | 268   | 209                       | +2,9<br>—           | —                   | +2,9<br>—           | 196  | +2,9<br>— | 179   | +2,9<br>— | 197,8 | 216   |     | 18                   | 18   | 24   | 32   | 30    | 24                   | 24 | 30 | 38 | 4     | 20    | 100               | 200   | 106   | 206   |    |
| 250                                          | 285   | 320   | 232                       | +0,3<br>—           | —                   | +0,3<br>—           | 218  | +0,3<br>— | 199   | +0,3<br>— | —     | —     | —   | 20                   | 20   | 25   | 35   | 40    | —                    | —  | —  | —  | 4     | 20    | 100               | —     | —     | —     |    |
| 280                                          | 291   | 320   | 260                       | +3,1<br>—           | —                   | +3,1<br>—           | 245  | +3,1<br>— | 223   | +3,1<br>— | —     | —     |     | 20                   | 20   | 25   | 35   | 30    | —                    | —  | —  | —  | 4     | 20    | 100               | —     | —     | —     |    |
| 315                                          | 335   | 370   | 293                       | +0,3<br>—           | —                   | +0,3<br>—           | 275  | +0,3<br>— | 251   | +0,3<br>— | —     | —     |     | 20                   | 20   | 25   | 35   | 40    | —                    | —  | —  | —  | 4     | 20    | 100               | —     | —     | —     |    |
| 355                                          | 373   | 430   | 330                       | +0,3<br>—           | —                   | +0,3<br>—           | 310  | +0,3<br>— | 283   | +0,3<br>— | —     | —     | —   | 23                   | 23   | 30   | 40   | 40    | —                    | —  | —  | —  | 6     | 20    | 120               | —     | —     | —     |    |
| 400                                          | 427   | 482   | 372                       | +0,3<br>—           | —                   | +0,3<br>—           | 350  | +0,3<br>— | 319   | +0,3<br>— | —     | —     |     | 26                   | 26   | 33   | 46   | 45    | —                    | —  | —  | —  | 6     | 20    | 120               | —     | —     | —     |    |
| 450                                          | 514   | 585   | 419                       | +0,3<br>—           | —                   | +0,3<br>—           | 393  | +0,3<br>— | 359   | +0,3<br>— | —     | —     |     | 33                   | 38   | 46   | 60   | 60    | —                    | —  | —  | —  | 6     | 20    | 120 <sup>2)</sup> | —     | —     | —     |    |
| 500                                          | 530   | 585   | 465                       | +0,4<br>—           | —                   | +0,4<br>—           | 437  | +0,4<br>— | 399   | +0,4<br>— | —     | —     | —   | 33                   | 38   | 46   | 60   | 50    | —                    | —  | —  | —  | 6     | 20    | 120               | —     | —     | —     |    |
| 560                                          | 615   | 685   | 521                       | +0,4<br>—           | —                   | +0,4<br>—           | 490  | +0,4<br>— | 447   | +0,4<br>— | —     | —     |     | 35                   | 40   | 50   | 60   | 60    | —                    | —  | —  | —  | 6     | 20    | 120 <sup>2)</sup> | —     | —     | —     |    |
| 630                                          | 642   | 685   | 586                       | +0,4<br>—           | —                   | +0,4<br>—           | 551  | +0,4<br>— | 503   | +0,4<br>— | —     | —     |     | 35                   | 40   | 50   | 60   | 40    | —                    | —  | —  | —  | 6     | 20    | 120               | —     | —     | —     |    |
| 710                                          | 737   | 800   | 661                       | +0,4<br>—           | —                   | +0,4<br>—           | 621  | +0,4<br>— | —     | —         | —     | —     | —   | 35                   | 40   | 50   | —    | 50    | —                    | —  | —  | —  | 8     | 20    | 120               | —     | —     | —     |    |
| 800                                          | 840   | 905   | 745                       | +0,4<br>—           | —                   | +0,4<br>—           | 700  | +0,4<br>— | —     | —         | —     | —     |     | 36                   | 42   | 52   | —    | 50    | —                    | —  | —  | —  | 8     | 20    | 120               | —     | —     | —     |    |
| 900                                          | 944   | 1005  | 838                       | +0,4<br>—           | —                   | +0,4<br>—           | 787  | +0,4<br>— | —     | —         | —     | —     |     | 40                   | 46   | 55   | —    | 50    | —                    | —  | —  | —  | 8     | 20    | 120               | —     | —     | —     |    |
| 1000                                         | 1047  | 1110  | 931                       | +0,4<br>—           | —                   | +0,4<br>—           | 875  | +0,4<br>— | —     | —         | —     | —     |     | 42                   | 50   | 60   | —    | 70    | —                    | —  | —  | —  | 8     | 20    | 140               | —     | —     | —     |    |
| 1200                                         | 1245  | 1330  | 1117                      | +0,4<br>—           | —                   | +0,4<br>—           | —    | —         | —     | —         | —     | —     |     | 50                   | 60   | —    | —    | 70    | —                    | —  | —  | —  | 8     | 20    | 140               | —     | —     | —     |    |

1) From  $d_1 = 225$  mm, the specified values of  $d_5$  allow for the tapering of the pipe.

2) For pipe series 5,  $z_1 = 130$  mm.

## Flange (item No.2)



Designation of a glass fibre reinforced plastics<sup>5)</sup> flange (item No.2) for a pipe outside diameter of 75 mm and rated for PN 10:

Flange DIN 16963 – 2 – 75 – 10 GFK

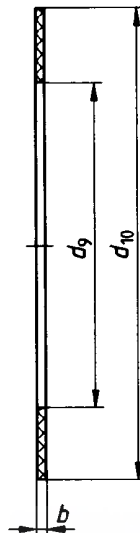
Table 2. Flanges (item No. 2)

| Nominal flange size DN            | Pipe outside diameter, $d_1$      | $D^{4)}$                            | $d_2^{4)}$                 | $d_6^{3)}$                        | $k^{4)}$                           | Bolts                      |                                 | $r_2$                 |
|-----------------------------------|-----------------------------------|-------------------------------------|----------------------------|-----------------------------------|------------------------------------|----------------------------|---------------------------------|-----------------------|
|                                   |                                   |                                     |                            |                                   |                                    | Number                     | Thread size                     |                       |
| 15<br>20<br>25                    | 20<br>25<br>32                    | 95<br>105<br>115                    | 14                         | 28<br>34<br>42                    | 65<br>75<br>85                     | 4                          | M12                             | 3                     |
| 32<br>40<br>50                    | 40<br>50<br>63                    | 140<br>150<br>165                   | 18                         | 51<br>62<br>78                    | 100<br>110<br>125                  | 4                          | M16                             | 3                     |
| 65<br>80<br>100                   | 75<br>90<br>110                   | 185<br>200<br>220                   | 18                         | 92<br>108<br>128                  | 145<br>160<br>180                  | 4<br>8<br>8                | M16                             | 3                     |
| 100<br>125<br>150                 | 125<br>140<br>160                 | 220<br>250<br>285                   | 18<br>18<br>22             | 135<br>158<br>178                 | 180<br>210<br>240                  | 8                          | M16<br>M16<br>M20               | 3                     |
| 150<br>200<br>200                 | 180<br>200<br>225                 | 285<br>340<br>340                   | 22                         | 188<br>235<br>238                 | 240<br>295<br>295                  | 8                          | M20                             | 3                     |
| 250<br>250<br>300                 | 250<br>280<br>315                 | 395<br>395<br>445                   | 22                         | 288<br>294<br>338                 | 350<br>350<br>400                  | 12                         | M20                             | 3                     |
| 350<br>400<br>500                 | 355<br>400<br>450                 | 505<br>565<br>670                   | 22<br>26<br>26             | 376<br>430<br>517                 | 460<br>515<br>620                  | 16<br>16<br>20             | M20<br>M24<br>M24               | 4<br>4<br>6           |
| 500<br>600<br>600                 | 500<br>560<br>630                 | 670<br>780<br>780                   | 26<br>30<br>30             | 533<br>618<br>645                 | 620<br>725<br>725                  | 20<br>20<br>24             | M24<br>M27<br>M27               | 4<br>7<br>4           |
| 700<br>800<br>900<br>1000<br>1200 | 710<br>800<br>900<br>1000<br>1200 | 895<br>1015<br>1115<br>1230<br>1455 | 30<br>33<br>33<br>36<br>39 | 740<br>843<br>947<br>1050<br>1260 | 840<br>950<br>1050<br>1160<br>1380 | 24<br>24<br>28<br>28<br>32 | M27<br>M30<br>M30<br>M33<br>M36 | 5<br>5<br>5<br>5<br>6 |

<sup>3)</sup> From  $d_1 = 63$  mm, identical with the values given in DIN 2673, except for  $d_1 = 450$  mm and 560 mm, where  $d_6$  values are identical with those given in DIN 2642.

<sup>4)</sup> See DIN 2501 Part 1 for flange connecting dimensions.

<sup>5)</sup> See table 5 for flange materials and for material symbols to be used in the designation.

**Gasket (item No.7) 6)**

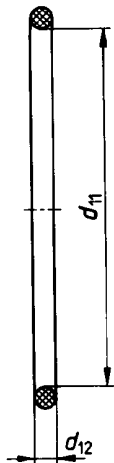
Designation of a pipe series 3 gasket (item No.7) designed for a pipe outside diameter of 250 mm:

Gasket DIN 16963-7-250-3

Table 3. **Gaskets (item No.7)**

| Pipe outside diameter, $d_1$ | $d_{10}$ | $d_9$<br>Pipe series |      |     |     | $b$ |
|------------------------------|----------|----------------------|------|-----|-----|-----|
|                              |          | 2                    | 3    | 4   | 5   |     |
| 20                           | 45       | —                    | —    | —   | 16  | 2   |
| 25                           | 58       | —                    | —    | 21  | 20  |     |
| 32                           | 68       | —                    | —    | 28  | 26  |     |
| 40                           | 78       | —                    | 36   | 35  | 33  | 2   |
| 50                           | 88       | —                    | 46   | 44  | 41  |     |
| 63                           | 102      | 59                   | 58   | 56  | 51  |     |
| 75                           | 122      | 70                   | 69   | 66  | 61  | 2   |
| 90                           | 138      | 84                   | 83   | 80  | 74  | 2   |
| 110                          | 158      | 103                  | 101  | 97  | 90  | 3   |
| 125                          | 158      | 117                  | 115  | 111 | 102 | 3   |
| 140                          | 188      | 131                  | 129  | 124 | 114 |     |
| 160                          | 212      | 150                  | 148  | 142 | 131 |     |
| 180                          | 212      | 169                  | 166  | 160 | 147 | 3   |
| 200                          | 268      | 188                  | 185  | 177 | 164 |     |
| 225                          | 268      | 211                  | 208  | 199 | 184 |     |
| 250                          | 320      | 234                  | 231  | 222 | 204 | 3   |
| 280                          | 320      | 263                  | 258  | 248 | 229 |     |
| 315                          | 370      | 295                  | 291  | 279 | 258 |     |
| 355                          | 430      | 333                  | 328  | 315 | 290 | 3   |
| 400                          | 482      | 375                  | 369  | 355 | 327 |     |
| 450                          | 585      | 422                  | 415  | 399 | 368 |     |
| 500                          | 585      | 469                  | 461  | 443 | 409 | 3   |
| 560                          | 685      | 525                  | 517  | 497 | 456 |     |
| 630                          | 685      | 591                  | 581  | 559 | 513 |     |
| 710                          | 800      | 666                  | 655  | 630 | —   | 3   |
| 800                          | 905      | 750                  | 738  | 709 | —   |     |
| 900                          | 1005     | 844                  | 831  | 798 | —   |     |
| 1000                         | 1110     | 938                  | 923  | 885 | —   |     |
| 1200                         | 1330     | 1126                 | 1108 | —   | —   |     |

6) Other suitable cross-sectional dimensions shall be permitted.



**Table 4. O rings (item No.8)**

| Pipe outside<br>diameter,<br>$d_1$     | $d_{11}$                |                                     | $d_{12}$        |                                        | Identical with<br>(standard designation of O ring)                |
|----------------------------------------|-------------------------|-------------------------------------|-----------------|----------------------------------------|-------------------------------------------------------------------|
|                                        |                         | Limit<br>deviations                 |                 | Limit<br>deviations                    |                                                                   |
| <b>20</b><br><b>25</b><br><b>32</b>    | 23,4<br>28,2<br>36,1    | $\pm 0,4$                           | 3,5             | $\pm 0,1$                              | DIN 8063 – 16 – 20<br>DIN 8063 – 13 – 25<br>DIN 8063 – 16 – 32    |
| <b>40</b><br><b>50</b><br><b>63</b>    | 43,8<br>53,3<br>69,2    | $\pm 0,5$<br>$\pm 0,5$<br>$\pm 0,7$ | 5,3             | $\pm 0,13$                             | DIN 8063 – 16 – 40<br>DIN 8063 – 16 – 50<br>DIN 8063 – 16 – 63    |
| <b>75</b><br><b>90</b><br><b>110</b>   | 81,9<br>101<br>120      | $\pm 0,7$                           | 5,3<br>5,3<br>7 | $\pm 0,13$<br>$\pm 0,13$<br>$\pm 0,15$ | DIN 8063 – 16 – 75<br>DIN 8063 – 16 – 90<br>DIN 8063 – 16 – 110   |
| <b>125</b><br><b>140</b><br><b>160</b> | 120<br>151,8<br>177,2   | $\pm 0,7$<br>$\pm 1,2$<br>$\pm 1,2$ | 7               | $\pm 0,15$                             | DIN 8063 – 16 – 110<br>DIN 8063 – 16 – 140<br>DIN 8063 – 16 – 160 |
| <b>180</b><br><b>200</b><br><b>225</b> | 164,4<br>196,2<br>202,5 | $\pm 1,2$                           | 7               | $\pm 0,15$                             | DIN 16963 – 8 – 180<br>DIN 16963 – 8 – 200<br>DIN 16963 – 8 – 225 |

### 3 Materials

### Table 5. Materials

| Name of component | Item No. | Permitted material              |    |    |       |     |     | PE-HD |
|-------------------|----------|---------------------------------|----|----|-------|-----|-----|-------|
|                   |          | GG                              | St | Al | PP-GF | PVC | GFK |       |
| Short adaptor     | 1        |                                 |    |    |       |     |     | X     |
| Short adaptor     | 23       |                                 |    |    |       |     |     | X     |
| Long adaptor      | 3        |                                 |    |    |       |     |     | X     |
| Long adaptor      | 24       |                                 |    |    |       |     |     | X     |
| Flange            | 2        | X                               | X  | X  | X     | X   | X   |       |
| Gasket            | 7        | Materials subject to agreement. |    |    |       |     |     |       |
| O ring            | 8        |                                 |    |    |       |     |     |       |

The materials suitable for the components listed are marked X.

GG = cast iron (grey cast iron) as specified in DIN 1691

St = USt 37-2 or RSt 37-2 as specified in DIN 17 100, at the manufacturer's discretion

Al = light alloy

PP-GF = glass fibre reinforced polypropylene

PVC = PVC-U as specified in DIN 8063 Part 5

GFK = glass fibre reinforced plastics

PE-HD = high-density polyethylene as specified in DIN 16963 Part 5 (cf. Explanatory notes)

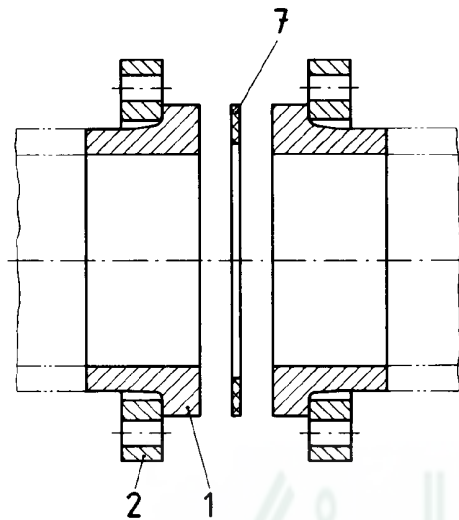
For item Nos. 7 and 8, the material shall be agreed as a function of the type, concentration and service temperature of the medium conveyed.

#### 4 Assemblies

Adaptors, flanges and sealing elements as specified in clause 2 may be used to make the flanged joints shown below.

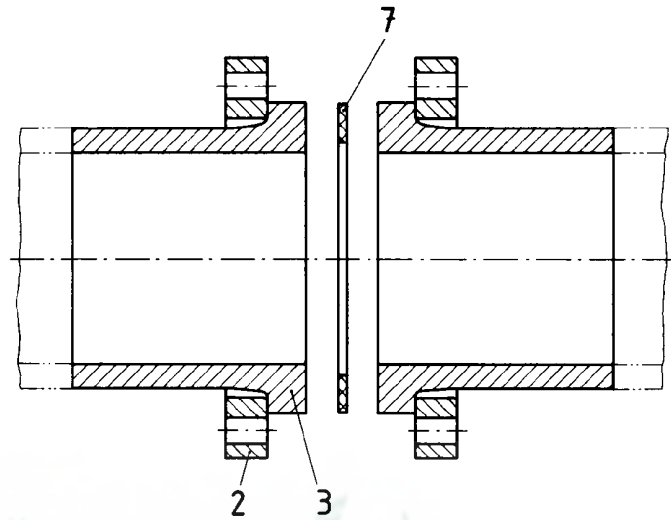
**Type F1 flanged joint** (for sizes from DN 15 to DN 1200)

**Type F6 flanged joint** (for sizes from DN 15 to DN 200)



A

| Item No. | Name of component |
|----------|-------------------|
| 1        | Short adaptor     |
| 2        | Flange            |
| 7        | Gasket            |

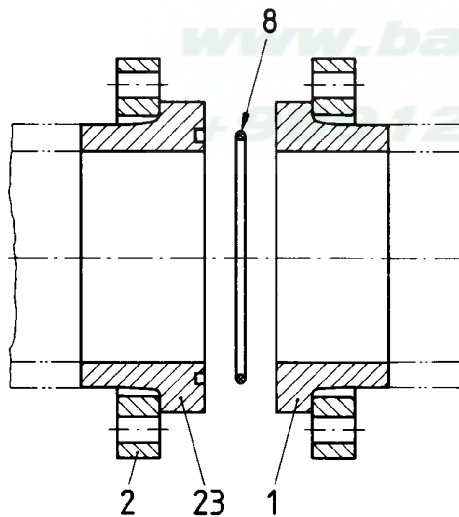


B

| Item No. | Name of component |
|----------|-------------------|
| 2        | Flange            |
| 3        | Long adaptor      |
| 7        | Gasket            |

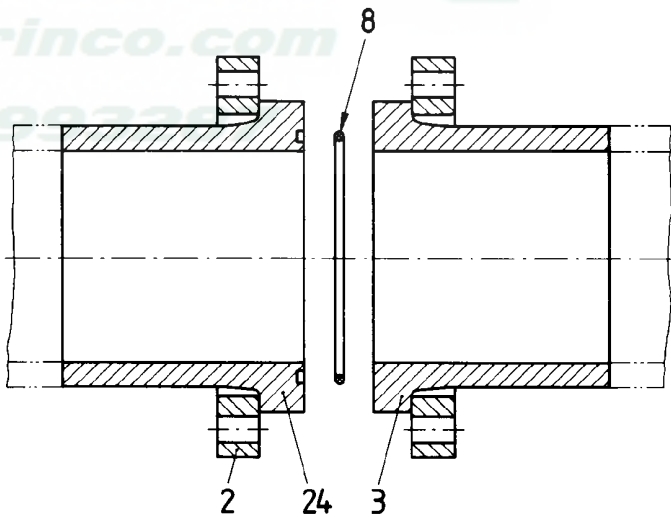
**Type F2 flanged joint** (for sizes from DN 15 to DN 1200)

**Type F7 flanged joint** (for sizes from DN 15 to DN 200)



C

| Item No. | Name of component |
|----------|-------------------|
| 1        | Short adaptor     |
| 2        | Flange            |
| 8        | O ring            |
| 23       | Short adaptor     |



D

| Item No. | Name of component |
|----------|-------------------|
| 2        | Flange            |
| 3        | Long adaptor      |
| 8        | O ring            |
| 24       | Long adaptor      |

### Standards referred to

|                   |                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIN 1691          | Flake graphite cast iron (grey cast iron); properties                                                                                                                       |
| DIN 2501 Part 1   | Flanges; connecting dimensions                                                                                                                                              |
| DIN 2642          | Loose flanges with collar and plain collars, rated for PN 10                                                                                                                |
| DIN 2673          | Loose flanges and adaptors rated for PN 10                                                                                                                                  |
| DIN 7168 Part 1   | General tolerances; linear and angular dimensions                                                                                                                           |
| DIN 8063 Part 3   | Pipe joint assemblies and fittings for unplasticized polyvinyl chloride (PVC) pressure pipes; pipe couplings; dimensions                                                    |
| DIN 8063 Part 4   | Pipe joint assemblies and fittings for unplasticized polyvinyl chloride (PVC-U) pressure pipes; bushings, flanges and sealing elements; dimensions                          |
| DIN 8063 Part 5   | (at present at the stage of draft) Pipe joint assemblies and fittings for unplasticized polyvinyl chloride (PVC-U) pressure pipes; general quality requirements and testing |
| DIN 8074          | High-density polyethylene (PE-HD) pipes; dimensions                                                                                                                         |
| DIN 16 901        | Plastics mouldings; tolerances and acceptance conditions for linear dimensions                                                                                              |
| DIN 16 963 Part 5 | (at present at the stage of draft) Pipe joint assemblies and fittings for high-density polyethylene pressure pipes; general quality requirements and testing                |
| DIN 17 100        | Steels for general structural purposes; quality standard                                                                                                                    |

### Explanatory notes

This standard has been prepared by Subcommittee 504.4 *Kunststoff-Fittings für Rohre aus Thermoplasten* of the *Normenausschuß Kunststoffe* (Plastics Standards Committee).

The adaptor dimensions have been specified on the assumption that the adaptors are made from a moulding compound showing the same characteristics in the long-term hydrostatic pressure test as the type 1 PE-HD pipes specified in DIN 8075 Part 1, August 1976 edition (withdrawn).

### International Patent Classification

B 29 C 65/18  
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B 29 C 67/14  
F 16 L 47/00

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