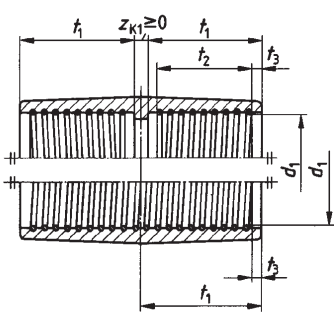
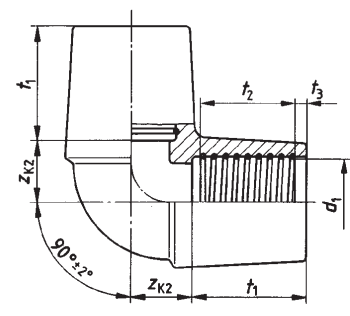
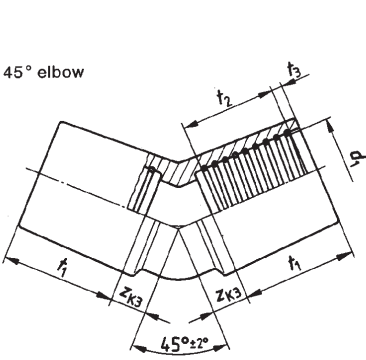
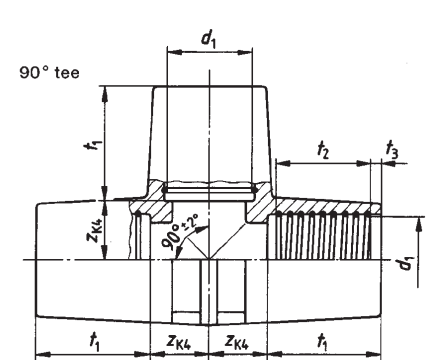


| | | |
|--|---|---|
| | <p>Pipe joint assemblies and fittings for high-density polyethylene (PE-HD) pressure pipes Fittings for resistance welding Dimensions</p> | <p>DIN 16963 Part 7</p> |
| <p>Rohrverbindungen und Rohrleitungsteile für Druckrohrleitungen aus Polyethylen hoher Dichte (PE-HD); Heizwendel-Schweiß fittings, Maße</p> | | <p>Supersedes August 1980 edition, withdrawn in January 1986.</p> |
| <p><i>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.</i></p> | | |
| <p style="text-align: center;">Dimensions in mm</p> | | |
| <p>1 Field of application</p> | | |
| <p>This standard specifies requirements for high-density polyethylene (PE-HD) fittings to be joined with PE-HD pipes as specified in DIN 8074 of MFI groups 005 and 010*).</p> | | |
| <p>Where fittings are to be welded to pipes of other MFI groups, verification of weldability shall be provided.</p> | | |
| <p>These fittings shall also comply with the requirements specified in DIN 16963 Part 5.</p> | | |
| <p>2 Dimensions and designation</p> | | |
| <p>Fittings are not expected to conform to the designs illustrated here; compliance is only required in the case of the dimensions specified.</p> | | |
| <p>Socket (with or without stop, subject to agreement)</p> | <p>90° elbow</p> | |
|  |  | |
| <p>45° elbow</p>  | <p>90° tee</p>  | |
| <p>*) See also Explanatory notes to the October 1989 edition of DIN 16963 Part 5.</p> | | |
| <p style="text-align: right;">Continued on page 2</p> | | |

No part of this standard may be reproduced without the prior permission of DIN Deutsches Institut für Normung e. V., Berlin. In case of doubt, the German-language original should be consulted as the authoritative text.

Office Address:

No.8 (Suit 6), Nour Alley, Africa St., Tehran/IRAN.....

Tel.: (+98 21) 88 67 79 65 , 88 67 79 66, 88 67 39 19 , 88 67 39 18 - Fax: (+98 21) 88 87 85 81

www.parsethylene-kish.com

Designation of a 45° elbow for resistance welding as specified in this standard (7), with $d_1 = 63$ mm, to be joined with PE-HD pipes of pipe series 5:

Elbow DIN 16963 – 7 – 45 – 63 – 5 PE-HD

| Pipe outside diameter, d | Mean internal socket diameter | | Socket depth, t_1 | | Minimum welding length, t_2 | t_3 min. | Elbows | | Tees Z_{K4} min. |
|----------------------------|-------------------------------|--------------------------|---------------------|------|-------------------------------|---------------|------------------|------------------|--------------------------|
| | d_1 min. | Maximum out-of-roundness | min. | max. | | | 90° elbows | 45° elbows | |
| | | | | | | | Z_{K2} min. | Z_{K3} min. | |
| 20 | 20,1 | 0,3 | 15 | 37 | 10 | 5 | 10 | 3 | 10 |
| 25 | 25,1 | 0,4 | 15 | 40 | 10 | 5 | 13 | 3 | 13 |
| 32 | 32,1 | 0,5 | 16 | 44 | 10 | 5 | 16 | 4 | 16 |
| 40 | 40,1 | 0,6 | 18 | 49 | 10 | 5 | 20 | 5 | 20 |
| 50 | 50,1 | 0,8 | 20 | 55 | 10 | 5 | 25 | 6 | 25 |
| 63 | 63,2 | 1,0 | 23 | 63 | 11 | 5 | 32 | 7 | 32 |
| 75 | 75,2 | 1,2 | 25 | 70 | 12 | 5 | 38 | 9 | 38 |
| 90 | 90,2 | 1,4 | 28 | 79 | 13 | 5 | 45 | 10 | 45 |
| 110 | 110,3 | 1,5 | 32 | 85 | 15 | 5 | 55 | 13 | 55 |
| 125 | 125,3 | 1,5 | 35 | 90 | 16 | 5 | 63 | 14 | 63 |
| 140 | 140,3 | 1,5 | 38 | 95 | 18 | 5 | 70 | 16 | 70 |
| 160 | 160,4 | 1,5 | 42 | 101 | 20 | 5 | 80 | 18 | 80 |
| 180 | 180,4 | 1,5 | 46 | 108 | 21 | 5 | – | – | – |
| 200 | 200,4 | 1,5 | 50 | 115 | 23 | 5 | – | – | – |
| 225 | 225,5 | 1,5 | 55 | 123 | 26 | 5 | – | – | – |

Standards referred to

- DIN 8074 High-density polyethylene (PE-HD) pipes; dimensions
 DIN 16963 Part 5 Pipe joint assemblies and fittings for high-density polyethylene (PE-HD) pressure pipes; general quality requirements and testing

Previous edition

DIN 16963 Part 7: 08.80.

Amendments

The following amendments have been made to the August 1980 edition, withdrawn in January 1986.

- The status of the standard is no longer that of a preliminary standard.
- PE-HD is no longer classified into type 1 and type 2.
- The specification for 45° branches (type A 45) has been deleted.
- The dimensions have been amended.
- The standard designation has been changed.

Explanatory notes

This standard has been prepared by Subcommittee 504.4 *Kunststoff-Fittings für Rohre aus Thermoplasten* of the *Normenausschuß Kunststoffe* and, in contrast to the previous edition, takes into account the work of ISO/TC 138/WG 9. Instead of specifying different dimensional systems, this standard establishes a basic system based on minimum dimensions, which leaves room for future developments.

International Patent Classification

F 16 L 47/00
E 03 B 7/00

Office Address:

No.8 (Suit 6), Nour Alley, Africa St., Tehran/IRAN.....

Tel.: (+98 21) 88 67 79 65 , 88 67 79 66, 88 67 39 19 , 88 67 39 18 - Fax: (+98 21) 88 87 85 81

www.parsethylene-kish.com